



LyteProfile 3" provides a comfortable 60° cut-off to both the actual and reflected source. Utilizes a robust frame-in kit, light engine and reflector design that is designed for a wide variety of installation conditions with a plenum depth of 4-1/2".

Project: _____

Location: _____

Cat.No: _____

Type: _____

Lamps: _____ Qty: _____

Notes: _____

Complete luminaire = Frame + Engine / Trim + Accessories (optional)

Frame

example: 3RAS

Series	Installation	Voltage / Options
3R	☐	☐
3R Uniframe 3" round frame	N New Construction Non-IC	— Universal (120V/277V) EM Emergency (see pg 2 for details & limitations) ¹ IP Interact Pro ready (for 0-10V engine only) ²
	A AirSeal IC (1000lm max)	— Standard universal (120V/277V) S Shallow universal (120V/277V) ³
		LC Chicago plenum 3 347V (not compatible with ELV dimming) 3IP 347V with Interact Pro (for 0-10V engine only) ²

Engine / Trim

example: P3RDL10930CLZ10US

Series	Style	Lumens	CRI	CCT
P3R	☐	☐	☐	☐
P3R LyteProfile 3" round light engine / trim	DL Downlight	05 500lm	9 90CRI	27 2700K
	LW Lensed wall wash ⁴	10 1000lm		30 3000K
	SL Shower light ⁴ (with non-conductive trim and lens)	15 1500lm ⁵		35 3500K
		10 1000lm	9 90CRI	40 4000K
				D2W 3000K-1800K ⁶

Engine / Trim (continued)

Reflector	Flange	Dimming / Voltage	Plenum
☐	☐	☐	☐
CL Specular clear	— White (matte)	Z10U 0-10V 1% dimming with Universal voltage (120/277/347V)	— Standard depth
CC Comfort clear	P Matching refelctor ⁷	LU Lutron PEQ0 dimming (dim to 0.1%) with Universal voltage (120/277/347V) ⁷	S Shallow for shallow IC frame ³
CD Comfort clear diffuse		E1 Electronic low voltage dimming with 120V voltage	
WH White (matte)	— White (matte)		
BK Black (matte)	— White (matte)		
	P Matching refelctor ⁷		

Accessories

SWZDT	SpaceWise wireless controller with dwell time functionality (compatible with all 0-10V options, see SWZDT spec sheet)
SRAINT	InterAct Office accessory (for use with Lightolier UniFrame 0-10V products)

- Emergency (EM) frame includes emergency battery with ceiling mounted test switch (no reflector mountable test switch). Requires above ceiling access. Ceiling mount test switch only (see page 2 for details and limitations).
- InterAct Pro (IP & 3IP) requires above ceiling access.
- Must order shallow IC frame (S), shallow engine / shallow trim (S) for complete shallow assembly. Shallow configurations available in 500lm and 1000lm only with ELV or 0-10V.
- Lensed wall wash (LWW) and Shower lights (SL) have a 1000lm (10) limit in Non-IC (N) configurations and 500lm (05) limit in IC (A) configurations. Order Shower light (SL) with CLP trim finish only.
- The 1500lm (15) option is not available with standard AirSeal IC frame (3RA-).
- Dim to Warm (D2W) engines are for Non-IC (N) frames only.
- Not compatible with Shallow (S) plenums.

P3R LyteProfile 3"

Round downlight

Frame-in-kits

New construction:

Galvanized stamped steel for dry or plaster ceilings. Preinstalled telescoping mounting bars from 13" to 24". For 4' distances, use 1/2" EMT, 1-1/2" x 1/2" U or C channel.

Max ceiling thickness is 2" (51 mm) including PoE frame 4.88" (124 mm) plenum depth for installation.

Patented install mounting frame:

- Pre-installed mounting bars for fast and tool-less installs into T-grid & hat channel ceilings.
- Close-cut aperture design eliminates possibility of gap between ceiling opening and reflector flange.
- Separate wiring compartment for wiring frame to building allows inspection prior to light engine install.
- Simple plug-and-play connection between frame and light engine from below ceiling.

Dimming

All configurations are FCC Class A unless otherwise specified.

- Advance 0-10V 1% (Z10)
- Lutron PEQO Hi-lume Premier 0.1% EcoSystem
- Electronic low voltage (ELV) – Remodel and AirSeal IC Shallow are FCC Class B
- Dim to Warm (D2W) – option changes CCT from 3000K to 1800K gradually as it dims

Optical systems

Quality of light: 3 SDCM ensures color consistency from fixture to fixture and over the luminaire's long lifetime.

Construction: Precision formed high grade aluminum reflectors with options for anodized or painted finishes.

Comfort throughout the space: 60° cutoff.

Light Engine

- Predicted 70% lumen maintenance to 57,000 hrs.
- Max operating ambient temperature of 30°C.

SpaceWiseDT (SWZDT)

- Remote mounted and centralized SWZDT module accessory controls multiple luminaires.
- Compatible with any 0-10v driver
- 120-347V mains input voltage
- Up to 730VA load at 120V

Interact Office (SRAINT)

- Provides Interact Office functionality either remotely to a group of luminaires, or to individual luminaires
- Compatible with any 0-10v driver
- 120-347V mains input voltage

Interact Pro (IP)

- Requires above ceiling access for service.
- Interact Pro brings the power of connected lighting to small and medium businesses without the complexity usually associated with connected lighting.
- Interact Pro includes an app, a portal and a broad portfolio of wireless luminaires, lamps and retrofit kits all working on the same system.
- Commissioning via Interact Pro App (Android or iPhone).
- Prepare commissioning remotely via Interact Pro portal.
- Requires compatible Interact Pro Gateway and internet connectivity for commissioning.
- Compatible with UID8451/10 ZigBee Greenpower wireless dimmer switch.
- Compatible with wireless Occ sensor (OCC SENSOR IA CM IP42 WH 10/1) or wireless Day/Occ sensor (OCC MULTI SENSOR IA CM WH 10/1).
- For more information on Interact Pro visit: www.interact-lighting.com/pro.
- For more information on Interact Ready visit: www.philips.com/interact-ready.

Title 24 exceptions

- BK finishes
- Must be installed in shallow AirSeal IC Frame
- Downlight (DL): 500lm and 1000lm only
- Lensed wall wash (LW): 500lm only

ENERGY STAR® exceptions

- BK finishes
- 347V & Emergency voltage/options
- Lutron configurations
- Dim to Warm configurations: DL downlight only

Labels and listings

- cULus listed for wet locations
- ENERGY STAR® certified
- CEC Title 24 JA8 certified
- CCEA (frames with *LC suffix)

Warranty



5 year limited warranty
Visit Signify.com/warranties for more information on Signify's standard 5-year limited warranty on complete luminaire systems.

0-10V electrical tables

Light engine	Input volts	Input current	Drive current	Input power
P3RDL05_Z10U	120 V	0.06 A	150 mA	7.0 W
	277 V	0.02 A		
P3RDL10_Z10U	120 V	0.00 A	250 mA	0.0 W
	277 V	0.00 A		
P3RDL109D2WZ10U	120 V	0.12 A	330 mA	13.6 W
	277 V	0.05 A		
P3RDL15_Z10U	120 V	0.13 A	380 mA	15.6 W
	277 V	0.06 A		
P3RDL07_Z10US P3RDL07_Z10UR	120 V	0.08 A	220 mA	9.4 W
	277 V	0.03 A		
P3RDL10_Z10US P3RDL10_Z10UR	120 V	0.12 A	330 mA	14.1 W
	277 V	0.05 A		

ELV electrical tables

Light engine	Input volts	Input current	Drive current	Input power
P3RDL05_E1	120 V	0.05 A	150 mA	5.4 W
	277 V	0.02 A		
P3RDL10_E1	120 V	0.00 A	250 mA	0.0 W
	277 V	0.00 A		
P3RDL109D2WE1	120 V	0.11 A	330 mA	13.1 W
	277 V	0.05 A		
P3RDL15_E1	120 V	0.11 A	350 mA	12.7 W
	277 V	0.05 A		
P3RDL07_E1S P3RDL07_E1R	120 V	0.08 A	220 mA	8.7 W
	277 V	0.03 A		
P3RDL10_E1S P3RDL10_E1R	120 V	0.11 A	330 mA	13.2 W
	277 V	0.05 A		

Lutron electrical tables

Light engine	Input volts	Input current	Drive current	Input power
P3RDL05_LU	120 V	0.06 A	150 mA	6.2 W
	277 V	0.02 A		
P3RDL10_LU	120 V	0.12 A	250 mA	13.0 W
	277 V	0.05 A		
P3RDL109D2WLU	120 V	0.12 A	330 mA	13.0 W
	277 V	0.05 A		
P3RDL15_LU	120 V	0.13 A	380 mA	15.0 W
	277 V	0.05 A		

P3R LyteProfile 3"

Round downlight

Polished Reflectors Shown as round reflectors but represent the finish of LyteProfile square reflectors.



Specular clear (CL): Most specular and most efficient finish, delivers maximum photometric performance but can produce a mirror image effect of the interior space.



White (WH): (matte) Brightest illuminated aperture and provides the smoothest transition to most ceilings when off (white is only available with a white flange).



Comfort clear (CC): Semi-specular finish that softens the light at the source of the reflector and creates a subtle, even luminance from the reflector cone.



Black (BK): (anodized) Specular finish that provides the lowest aperture brightness possible and significantly reduces source identification in a ceiling.



Comfort clear diffuse (CD): Slightly diffuse clear finish, that eliminates iridescence and reduces the mirror image effect inherent with specular finishes.



Shower light (SL): Wet location rated shower light applicable in any installation requiring dead front trims, interior or exterior non-corrosive applications, or where a diffused lens at the ceiling is required (non-conductive).

Flanges



White (-): (matte) Provides the smoothest transition to ceilings when off.



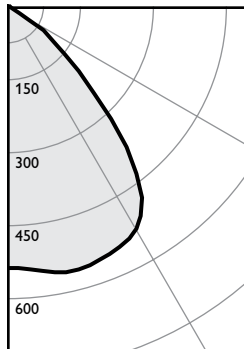
Polished (P): (matches aperture) Produces a continuous look throughout the reflector (aperture matching).

P3R LyteProfile 3"

Round downlight

Downlight, 1000lm engine, 100 lm/W at 10.4W

Candela Curve



Frame: **3RN**
Engine / Trim:
P3RDL10935CCZ10U

Output lumens: 1039 lms
Input watts: 10.4 W
CRI: 90 min
CCT: 3500K
Spacing Crit.: 1.4

Zonal summary

Zone	Lumens	%Luminaire
0-30	462	44.5%
0-40	754	72.6%
0-60	1029	99.0%
0-90	1039	100.0%

Angle	Mean CP	Lumens
0	3112	
5	3044	282
10	2785	
15	2410	652
20	1672	
25	837	420
30	324	
35	163	115
40	128	
45	77	57
50	0	
55	0	0
60	0	
65	0	0
70	0	
75	0	0
80	0	
85	0	0
90	0	

Single unit data

Height to lighted plane	Initial center beam foot-candles	Beam diameter (ft)*
5'	21	7.0'
6'	15	8.4'
7'	11	9.8'
8'	8	11.2'
9'	7	12.6'

* Beam diameter is where foot-candles drop to 50% of maximum.

Multiple unit data - RCR 2

Spacing on center	Initial center beam foot-candles	Watts per sq. ft.
5'	46.0	0.46
6'	30.0	0.30
7'	21.0	0.22
8'	18.0	0.18
9'	14.0	0.14

38' x 38' x 10' Room, Workplane 2.5' above floor, 80/50/20% Reflectances

Efficacy: **99.9lm/w**
Report#: F41036

Adjustment Factors

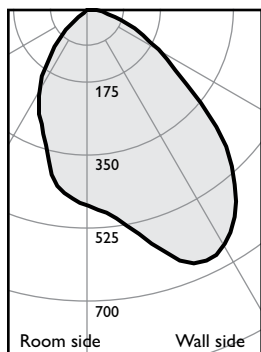
Finish	CCT	Lumens
CL = 101%	90CRI 4000K = 107%	1500lm = 150%
CC = 100%	90CRI 3500K = 100%	1000lm = 100%
CD = 96%	90CRI 3000K = 93%	500lm = 70%
WH = 92%	90CRI 2700K = 87%	
BK = 56%		

Coefficients of utilization

Ceiling	80%	70%	50%	30%	0%
Wall	70	50	30	10	0
RCR	Zonal cavity method - Effective floor reflectance = 20%				
Room Cavity Ratio	0	119	119	119	116
1	112	109	106	104	107
2	105	99	94	90	88
3	98	90	84	80	89
4	92	82	76	71	81
5	86	75	68	63	74
6	80	69	62	57	68
7	75	64	56	51	63
8	70	59	51	46	58
9	66	54	47	42	54
10	62	50	43	39	50

Wall wash, 1000lm engine, 88.0 lm/W at 10.3W

Candela Curve



Frame: **3RN**
Engine / Trim:
P3RLW10935CCZ10U

Output lumens: 905 lms
Input watts: 10.3 W
CRI: 90 min
CCT: 3500K

Efficacy: **88.0 lm/w**
Report#: F41037

Multiple unit data

Footcandles on wall

	2' from wall	3' on ctr.	
Distance from ceiling in feet	1	27	22
2	43	38	43
3	36	34	36
4	25	24	25
5	16	16	16
6	11	11	11
7	8	8	8
8	6	6	6
9	5	5	5
10	4	4	4
12	3	3	3
14	2	3	2

Multiple unit data

Footcandles on wall

	2' from wall	4' on ctr.	
Distance from ceiling in feet	1	23	13
2	36	23	36
3	30	23	30
4	20	18	20
5	13	13	13
6	9	9	9
7	7	7	7
8	5	5	5
9	4	4	4
10	3	3	3
12	3	2	3
14	2	2	2

Multiple unit data

Footcandles on wall

	2' from wall	5' on ctr.	
Distance from ceiling in feet	1	24	8
2	35	14	35
3	28	15	28
4	18	13	18
5	11	10	11
6	8	7	8
7	6	6	6
8	5	4	5
9	4	4	4
10	3	3	3
12	3	3	3
14	2	2	2

Adjustment factors

Finish	CCT	Lumens
CL = 102%	90CRI 4000K = 107%	1500lm = 150%
CC = 100%	90CRI 3500K = 100%	1000lm = 100%
CD = 95%	90CRI 3000K = 93%	500lm = 70%
WH = 95%	90CRI 2700K = 87%	
BK = 85%		

1. Correlated Color Temperature within specs as defined in ANSI_NEMA_ANSI C78.377-2008: Specifications for the Chromaticity of Solid State Lighting Products.
2. Tested using absolute photometry as specified in LM79: IESNA Approved Method for the Electrical and Photometric Measurements of Solid-State Lighting Products.

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