

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State  
Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: PORTFOLIO

Report Number: P250813

Luminaire Tested: **LSR8B70D010 EC8B70927 8LBW0LI**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P250813  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P27941)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B70D010 EC8B70927 8LBW0LI  
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
97 CRI 2700 CCT WITH SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6222.3 lumens  
Efficiency: N/A  
Efficacy: 82.0 lumens/watt  
Spacing Criteria (0/90/45): 1.34 / 1.34 / 1.17  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

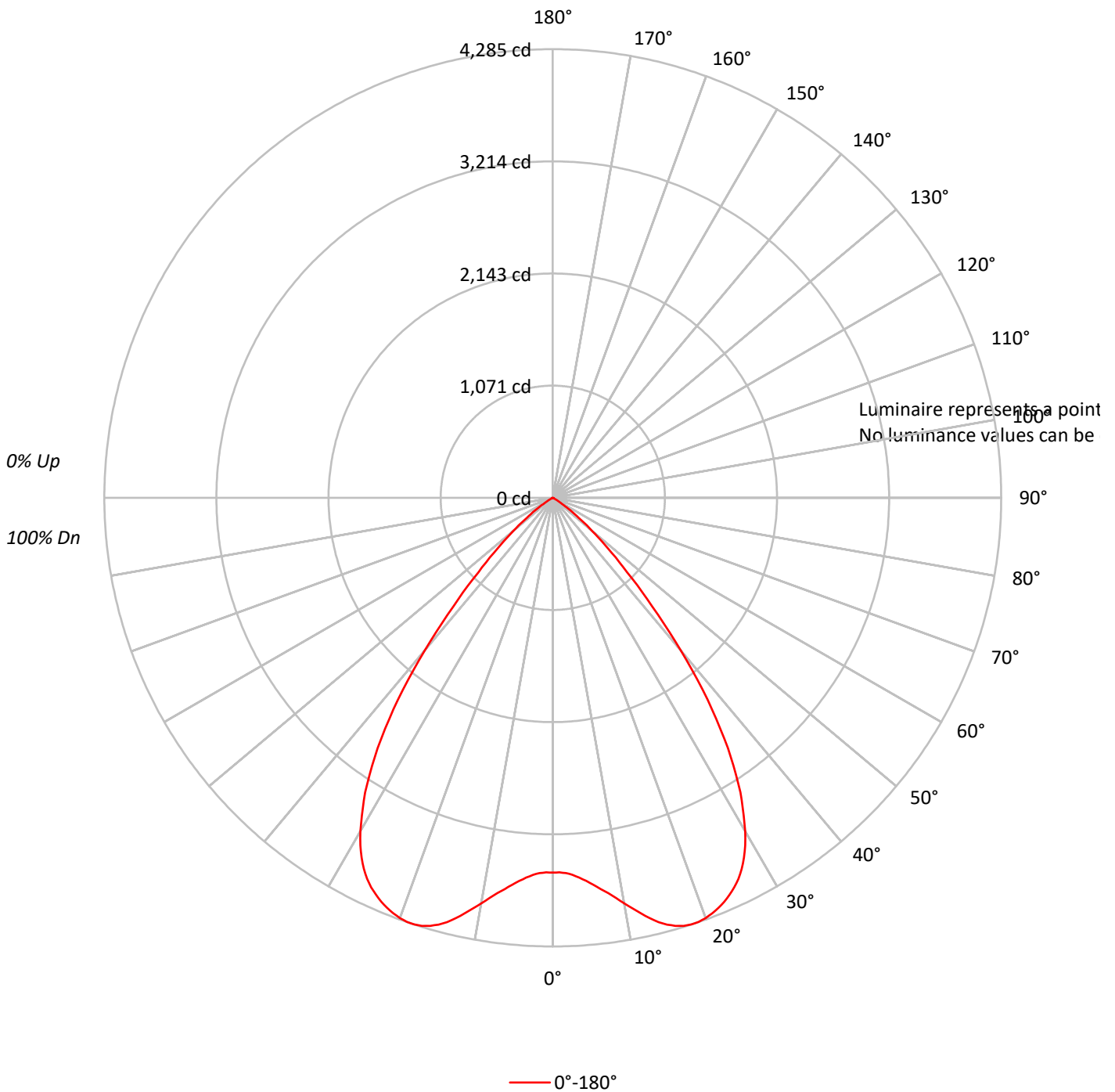
Input Watts (W): 75.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P250813

CATALOG NUMBER: LSR8B70D010 EC8B70927 8LBW0LI

### Luminous Intensity Polar Plot





TEST NUMBER: P250813

CATALOG NUMBER: LSR8B70D010 EC8B70927 8LBW0LI

**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				20			
RC	80				70				50				30				10	0		
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50	30	10	0
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102	100
1	113	110	107	105	110	108	105	103	104	102	100		100	98	97		96	95	94	92
2	106	101	97	93	104	99	95	92	96	93	90		93	90	88		90	88	86	84
3	100	93	87	83	98	92	86	82	89	85	81		86	83	80		84	81	78	77
4	94	86	79	75	92	84	79	74	82	77	73		80	76	72		78	75	72	70
5	88	79	72	68	87	78	72	67	76	71	67		74	70	66		73	69	65	64
6	83	73	66	62	82	72	66	61	71	65	61		69	64	60		68	63	60	58
7	78	68	61	56	77	67	61	56	66	60	56		64	59	55		63	59	55	54
8	74	63	56	52	72	62	56	52	61	55	51		60	55	51		59	54	51	49
9	70	59	52	48	68	58	52	47	57	51	47		56	51	47		55	50	47	45
10	66	55	48	44	65	54	48	44	53	48	44		53	47	44		52	47	43	42

**AVERAGE LUMINANCE (cd/sqm):**





TEST NUMBER: P250813

CATALOG NUMBER: LSR8B70D010 EC8B70927 8LBW0LI

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	359.0	5.8
10°-20°	1189.5	19.1
20°-30°	1871.5	30.1
30°-40°	1780.2	28.6
40°-50°	820.7	13.2
50°-60°	186.5	3.0
60°-70°	12.3	0.2
70°-80°	2.5	0.0
80°-90°	0.2	0.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	3420.0	55.0
0°-40°	5200.2	83.6
0°-60°	6207.4	99.8
0°-90°	6222.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6222.3	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3580	
5°	3672	359
15°	4220	1189
25°	4104	1872
35°	2918	1780
45°	1004	821
55°	180	186
65°	8	12
75°	2	2
85°	0	0
90°	0	



TEST NUMBER: P250813

CATALOG NUMBER: LSR8B70D010 EC8B70927 8LBW0LI

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	3580.2
1°	3578.5
2°	3585.3
3°	3605.7
4°	3636.3
5°	3672.1
6°	3716.3
7°	3764.0
8°	3813.4
9°	3871.2
10°	3932.6
11°	3993.9
12°	4058.6
13°	4119.9
14°	4176.0
15°	4220.2
16°	4252.6
17°	4274.8
18°	4285.0
19°	4283.2
20°	4271.3
21°	4250.9
22°	4225.4
23°	4191.3
24°	4152.2
25°	4104.4
26°	4048.3
27°	3976.9
28°	3891.7
29°	3792.9
30°	3678.9
32.5°	3336.8
35°	2917.9
37.5°	2431.0
40°	1899.9
42.5°	1404.4
45°	1004.4
47.5°	711.6
50°	490.3
52.5°	313.2
55°	180.5
57.5°	90.2
60°	39.2
62.5°	15.3
65°	8.5



TEST NUMBER: P250813

CATALOG NUMBER: LSR8B70D010 EC8B70927 8LBW0LI

**CANDELA DISTRIBUTION (continued):**

	0°
67.5°	5.1
70°	3.4
72.5°	3.4
75°	1.7
77.5°	1.7
80°	1.7
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)