

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: P250929

Luminaire Tested: **LSR8B70D010 EC8B70940 8LBW0H**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P250929  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P27940)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B70D010 EC8B70940 8LBW0H  
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
90 CRI 4000 CCT WITH SEMI-SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6722.0 lumens  
Efficiency: N/A  
Efficacy: 88.6 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.12  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

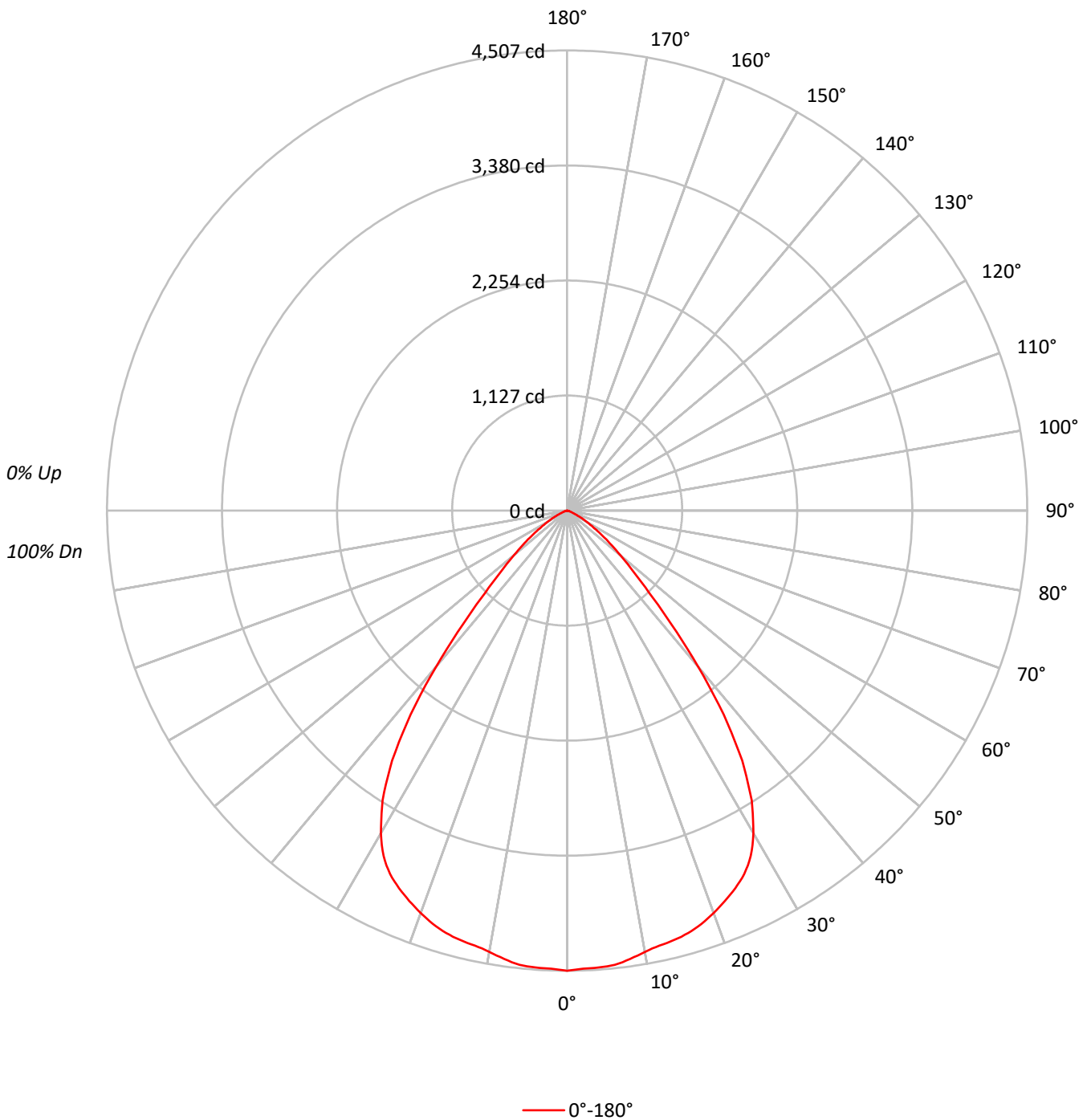
Input Watts (W): 75.9  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**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	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	93	92
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	87	85	83
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	79	77	75
4	93	84	78	73	91	83	77	72	81	75	71	79	74	71	77	73	70	68
5	87	77	71	66	85	76	70	65	75	69	65	73	68	64	71	67	63	62
6	82	71	65	60	80	71	64	59	69	63	59	68	62	58	66	62	58	56
7	77	66	59	54	75	65	59	54	64	58	54	63	57	53	62	57	53	52
8	72	61	54	50	71	61	54	50	60	54	49	58	53	49	57	53	49	47
9	68	57	50	46	67	57	50	46	56	50	46	55	49	45	54	49	45	44
10	64	53	47	42	63	53	47	42	52	46	42	51	46	42	50	45	42	40

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

	0°
0°	138992
5°	138681
10°	137425
15°	137941
20°	137647
25°	136304
30°	129915
35°	112485
40°	80238
45°	49309
50°	32526
55°	21515
60°	13778
65°	7515
70°	3679
75°	1847
80°	1030
85°	672



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	424.7	6.3
10°-20°	1218.7	18.1
20°-30°	1834.1	27.3
30°-40°	1815.8	27.0
40°-50°	922.6	13.7
50°-60°	371.7	5.5
60°-70°	112.6	1.7
70°-80°	19.4	0.3
80°-90°	2.4	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°	3477.5	51.7
0°-40°	5293.3	78.7
0°-60°	6587.6	98.0
0°-90°	6722.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6722.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	4507	
5°	4480	425
15°	4321	1219
25°	4006	1834
35°	2988	1816
45°	1131	923
55°	400	372
65°	103	113
75°	16	19
85°	2	2
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	4507.4
1°	4497.7
2°	4489.9
3°	4487.9
4°	4486.0
5°	4480.2
6°	4472.4
7°	4456.9
8°	4433.5
9°	4412.2
10°	4388.9
11°	4369.4
12°	4355.8
13°	4346.1
14°	4334.5
15°	4320.9
16°	4303.4
17°	4282.0
18°	4256.7
19°	4227.6
20°	4194.6
21°	4159.6
22°	4124.6
23°	4087.7
24°	4048.9
25°	4006.1
26°	3959.5
27°	3899.3
28°	3829.3
29°	3745.8
30°	3648.6
32.5°	3365.0
35°	2988.1
37.5°	2517.9
40°	1993.3
42.5°	1505.7
45°	1130.7
47.5°	864.6
50°	678.0
52.5°	526.5
55°	400.2
57.5°	297.3
60°	223.4
62.5°	159.3
65°	103.0



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**CANDELA DISTRIBUTION (continued):**

	0°
67.5°	64.1
70°	40.8
72.5°	25.3
75°	15.5
77.5°	9.7
80°	5.8
82.5°	3.9
85°	1.9
87.5°	0.0
90°	0.0

(END OF REPORT)