

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: P250953

Luminaire Tested: **LSR8B70D010 EC8B70940 8LBN0H**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P250953  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P27944)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B70D010 EC8B70940 8LBN0H  
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 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: 6073.0 lumens  
Efficiency: N/A  
Efficacy: 80.0 lumens/watt  
Spacing Criteria (0/90/45): 0.69 / 0.69 / 0.79  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

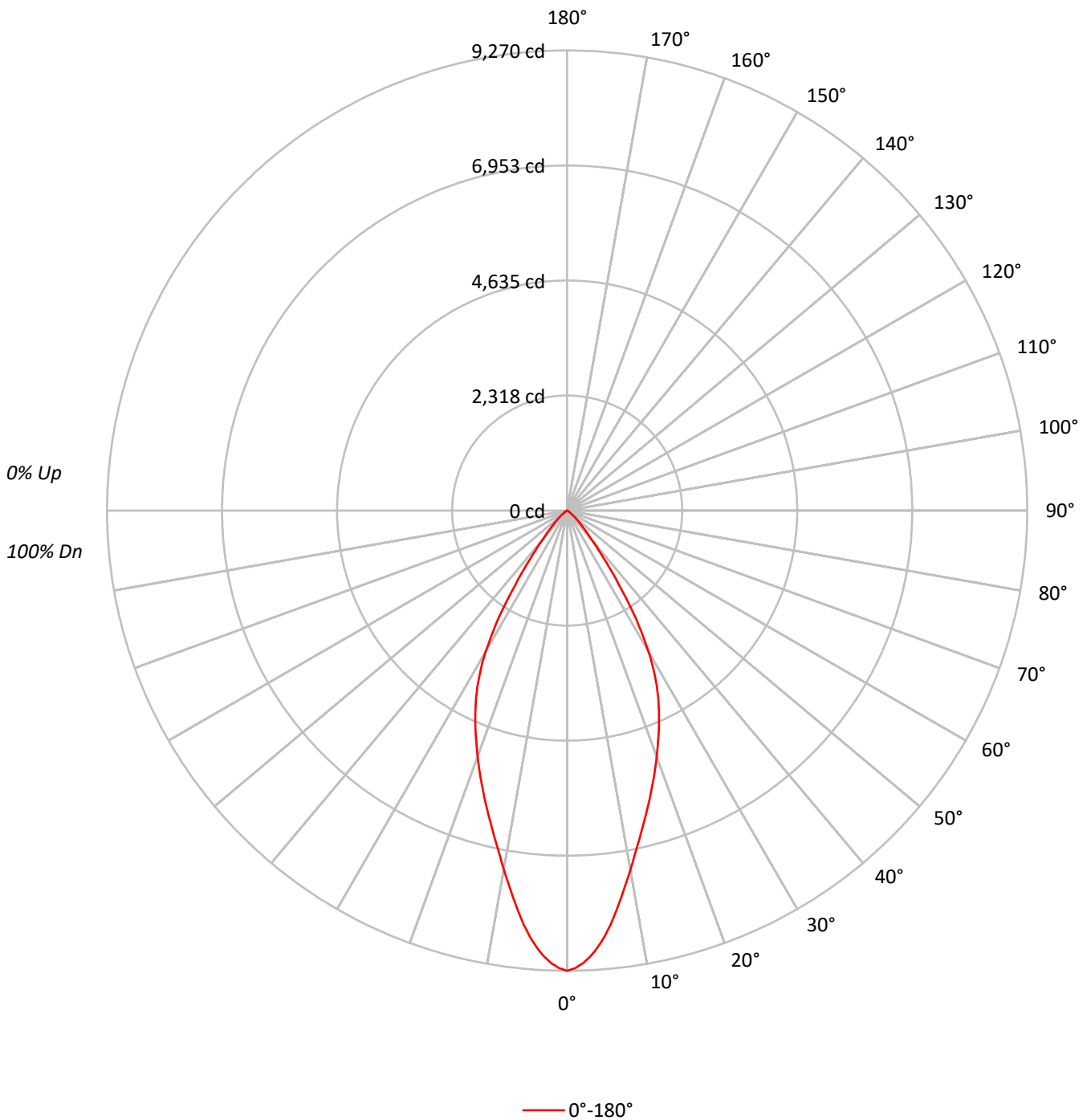
Input Watts (W): 75.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	114	111	109	106	111	109	107	105	105	103	101		101	100	98		98	97	96	94
2	108	104	100	96	106	102	98	95	99	96	93		96	93	91		93	91	89	88
3	103	97	92	88	101	95	91	87	93	89	86		90	87	85		88	86	83	82
4	98	91	85	81	96	90	85	81	87	83	80		85	82	79		84	80	78	76
5	93	85	79	75	92	84	79	75	82	78	74		81	77	74		79	76	73	72
6	89	80	74	70	87	79	74	70	78	73	69		76	72	69		75	71	69	67
7	85	76	70	66	83	75	69	65	74	69	65		72	68	65		71	67	64	63
8	81	71	66	62	79	71	65	61	70	65	61		69	64	61		68	64	61	59
9	77	68	62	58	76	67	62	58	66	61	58		65	61	58		64	60	57	56
10	74	64	59	55	73	64	58	55	63	58	55		62	58	54		61	57	54	53

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

	0°
0°	285868
5°	266645
10°	229846
15°	198916
20°	173038
25°	148709
30°	116847
35°	68174
40°	31454
45°	16279
50°	8165
55°	3968
60°	2023
65°	1197
70°	559
75°	488
80°	373
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	779.6	12.8
10°-20°	1742.2	28.7
20°-30°	1980.8	32.6
30°-40°	1163.3	19.2
40°-50°	312.2	5.1
50°-60°	74.1	1.2
60°-70°	16.9	0.3
70°-80°	3.8	0.1
80°-90°	0.3	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°	4502.5	74.1
0°-40°	5665.8	93.3
0°-60°	6052.0	99.7
0°-90°	6073.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6073.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	9270	
5°	8614	780
15°	6231	1742
25°	4371	1981
35°	1811	1163
45°	373	312
55°	74	74
65°	16	17
75°	4	4
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	9270.5
1°	9219.2
2°	9124.9
3°	8991.6
4°	8819.3
5°	8614.2
6°	8382.4
7°	8119.9
8°	7857.4
9°	7592.8
10°	7340.5
11°	7094.4
12°	6862.6
13°	6647.3
14°	6431.9
15°	6230.9
16°	6034.0
17°	5839.2
18°	5650.5
19°	5459.7
20°	5273.1
21°	5086.5
22°	4908.0
23°	4731.6
24°	4551.2
25°	4370.7
26°	4184.0
27°	3981.0
28°	3767.7
29°	3533.9
30°	3281.6
32.5°	2574.0
35°	1811.0
37.5°	1193.7
40°	781.4
42.5°	539.4
45°	373.3
47.5°	256.4
50°	170.2
52.5°	110.8
55°	73.8
57.5°	49.2
60°	32.8
62.5°	22.6
65°	16.4



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**CANDELA DISTRIBUTION (continued):**

	0°
67.5°	10.3
70°	6.2
72.5°	4.1
75°	4.1
77.5°	2.1
80°	2.1
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)