

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: P243844

Luminaire Tested: **LD8B40D010 ER8B40935 8LBW0LI**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P243844  
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: LD8B40D010 ER8B40935 8LBW0LI  
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
90 CRI 3500 CCT WITH SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3959.0 lumens  
Efficiency: N/A  
Efficacy: 96.8 lumens/watt  
Spacing Criteria (0/90/45): 1.34 / 1.34 / 1.17  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

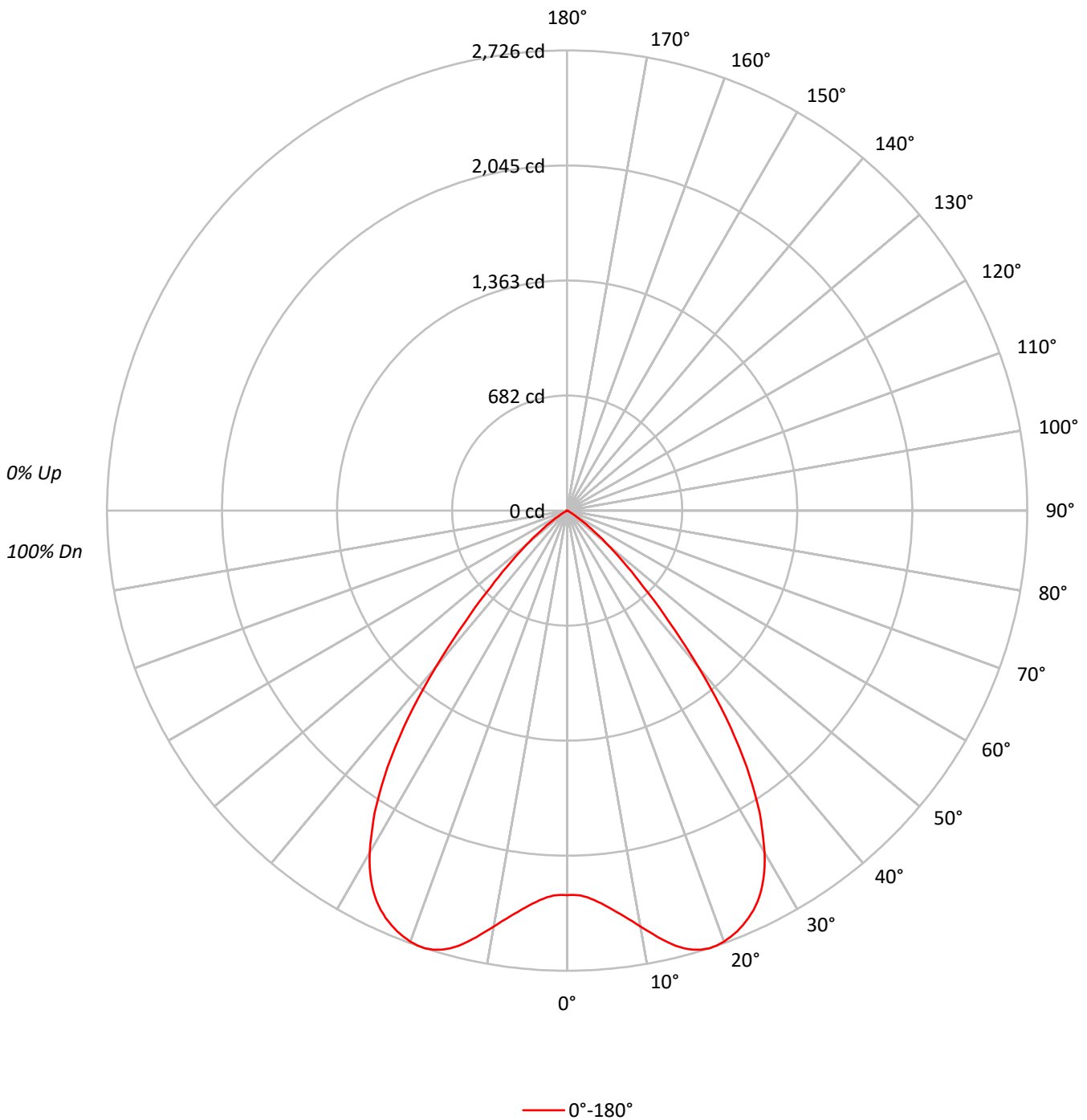
Input Watts (W): 40.9  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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):**

	0°
0°	70242
5°	72321
10°	78346
15°	85723
20°	89179
25°	88854
30°	83345
35°	69886
40°	48659
45°	27871
50°	14968
55°	6172
60°	1536
65°	394
70°	198
75°	131
80°	195
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	228.4	5.8
10°-20°	756.8	19.1
20°-30°	1190.8	30.1
30°-40°	1132.7	28.6
40°-50°	522.2	13.2
50°-60°	118.6	3.0
60°-70°	7.8	0.2
70°-80°	1.6	0.0
80°-90°	0.1	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°	2176.0	55.0
0°-40°	3308.6	83.6
0°-60°	3949.5	99.8
0°-90°	3959.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3959.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2278	
5°	2336	228
15°	2685	757
25°	2612	1191
35°	1856	1133
45°	639	522
55°	115	119
65°	5	8
75°	1	2
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	2277.9
1°	2276.8
2°	2281.1
3°	2294.1
4°	2313.6
5°	2336.4
6°	2364.5
7°	2394.9
8°	2426.3
9°	2463.1
10°	2502.1
11°	2541.1
12°	2582.3
13°	2621.2
14°	2657.0
15°	2685.2
16°	2705.7
17°	2719.8
18°	2726.3
19°	2725.2
20°	2717.6
21°	2704.7
22°	2688.4
23°	2666.7
24°	2641.8
25°	2611.5
26°	2575.8
27°	2530.3
28°	2476.1
29°	2413.3
30°	2340.7
32.5°	2123.0
35°	1856.5
37.5°	1546.8
40°	1208.8
42.5°	893.6
45°	639.1
47.5°	452.8
50°	312.0
52.5°	199.3
55°	114.8
57.5°	57.4
60°	24.9
62.5°	9.7
65°	5.4



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**CANDELA DISTRIBUTION (continued):**

	0°
67.5°	3.2
70°	2.2
72.5°	2.2
75°	1.1
77.5°	1.1
80°	1.1
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)