

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: P250596

Luminaire Tested: **LD8B80D010 ER8B80940 8LBM0B**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P250596  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13928)  
Test Lab: INNOVATION CENTER-P1  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD8B80D010 ER8B80940 8LBM0B  
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED  
DOWNLIGHT  
90 CRI 4000 CCT WITH SPECULAR BLACK TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4753.0 lumens  
Efficiency: N/A  
Efficacy: 63.9 lumens/watt  
Spacing Criteria (0/90/45): 0.79 / 0.79 / 0.87  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

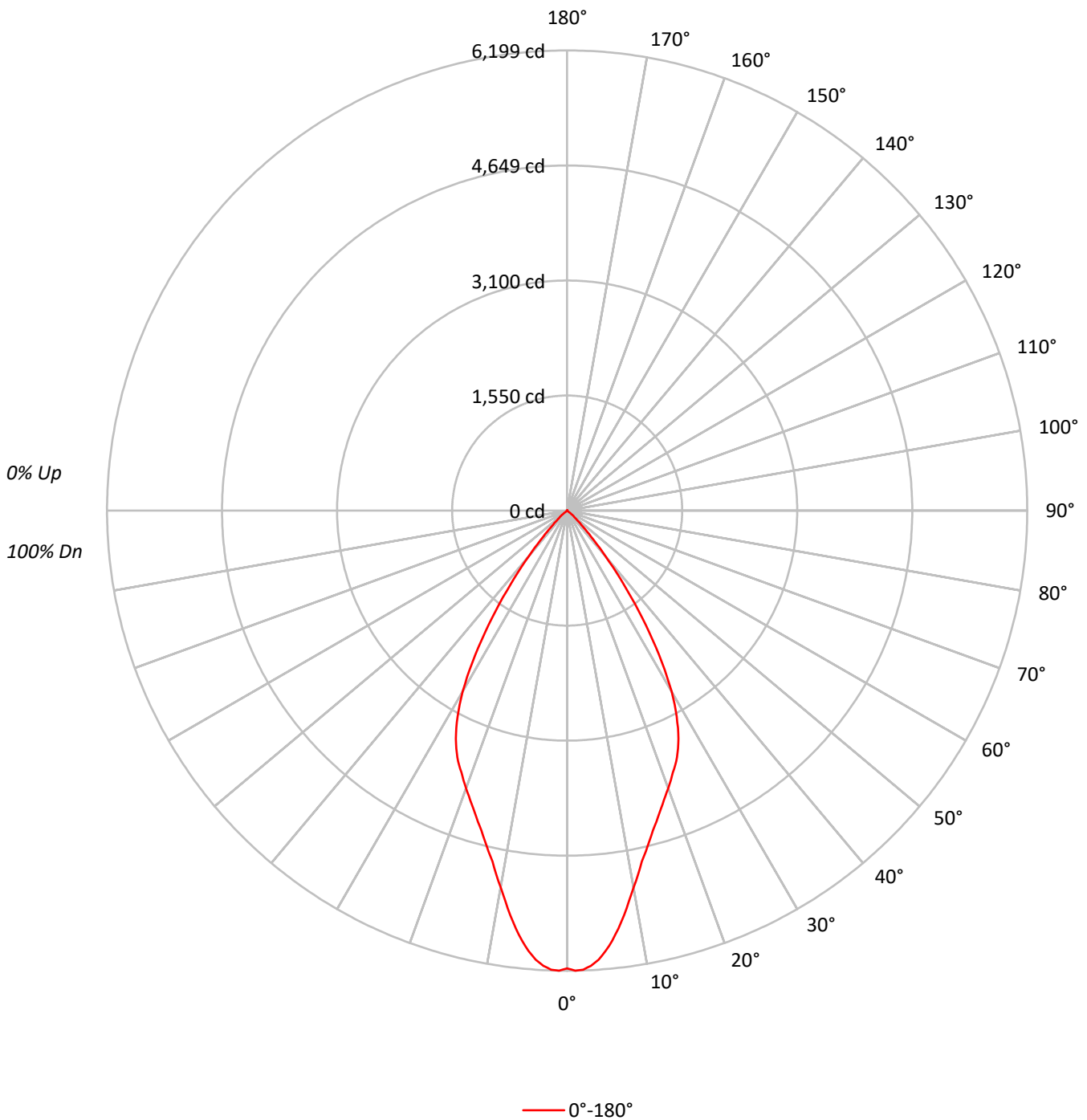
Input Watts (W): 74.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	108	106	111	109	107	105	105	103	101		101	100	98		98	97	96	94
2	108	103	99	96	106	102	98	95	98	95	93		95	93	91		93	91	89	87
3	103	96	92	88	101	95	91	87	92	89	86		90	87	84		88	85	83	81
4	98	90	85	81	96	89	84	80	87	83	79		85	81	78		83	80	77	76
5	93	85	79	75	91	84	78	74	82	77	74		80	76	73		79	75	72	71
6	88	79	74	69	87	79	73	69	77	72	69		76	71	68		74	71	68	66
7	84	75	69	65	83	74	68	64	73	68	64		72	67	64		70	66	63	62
8	80	70	64	60	79	70	64	60	69	64	60		68	63	60		67	63	60	58
9	76	66	61	57	75	66	60	57	65	60	56		64	60	56		63	59	56	55
10	72	63	57	53	71	62	57	53	62	57	53		61	56	53		60	56	53	51

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

	0°
0°	190174
5°	184360
10°	161460
15°	142547
20°	130621
25°	120272
30°	100105
35°	66491
40°	32360
45°	11722
50°	3526
55°	247
60°	0
65°	168
70°	0
75°	0
80°	408
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	541.7	11.4
10°-20°	1258.0	26.5
20°-30°	1596.0	33.6
30°-40°	1093.3	23.0
40°-50°	249.2	5.2
50°-60°	12.4	0.3
60°-70°	0.6	0.0
70°-80°	0.9	0.0
80°-90°	0.9	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°	3395.6	71.4
0°-40°	4489.0	94.4
0°-60°	4750.6	99.9
0°-90°	4753.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4753.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	6167	
5°	5956	542
15°	4465	1258
25°	3535	1596
35°	1766	1093
45°	269	249
55°	5	12
65°	2	1
75°	0	1
85°	0	1
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	6167.2
1°	6199.3
2°	6187.8
3°	6141.9
4°	6063.8
5°	5955.9
6°	5824.9
7°	5673.3
8°	5505.6
9°	5326.5
10°	5156.5
11°	5000.3
12°	4832.7
13°	4711.0
14°	4582.3
15°	4465.2
16°	4359.5
17°	4256.1
18°	4159.7
19°	4065.5
20°	3980.5
21°	3893.2
22°	3803.6
23°	3725.6
24°	3638.3
25°	3534.9
26°	3420.1
27°	3286.9
28°	3144.5
29°	2986.0
30°	2811.4
31°	2613.9
32°	2409.5
33°	2195.8
34°	1977.6
35°	1766.3
37.5°	1247.2
40°	803.9
42.5°	473.2
45°	268.8
47.5°	144.7
50°	73.5
52.5°	13.8
55°	4.6
57.5°	2.3



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**CANDELA DISTRIBUTION (continued):**

	0°
60°	0.0
62.5°	0.0
65°	2.3
67.5°	0.0
70°	0.0
72.5°	2.3
75°	0.0
77.5°	0.0
80°	2.3
82.5°	0.0
85°	0.0
87.5°	2.3
90°	0.0

(END OF REPORT)