

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: P247286

Luminaire Tested: **LSR8B80D010 EC8B80827 8LBM0WMH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247286  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P201734)  
Test Lab: INNOVATION CENTER-P1  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B80D010 EC8B80827 8LBM0WMH  
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
80 CRI 2700 CCT WITH WARM HAZE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7468.0 lumens  
Efficiency: N/A  
Efficacy: 100.4 lumens/watt  
Spacing Criteria (0/90/45): 0.9 / 0.9 / 0.9  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

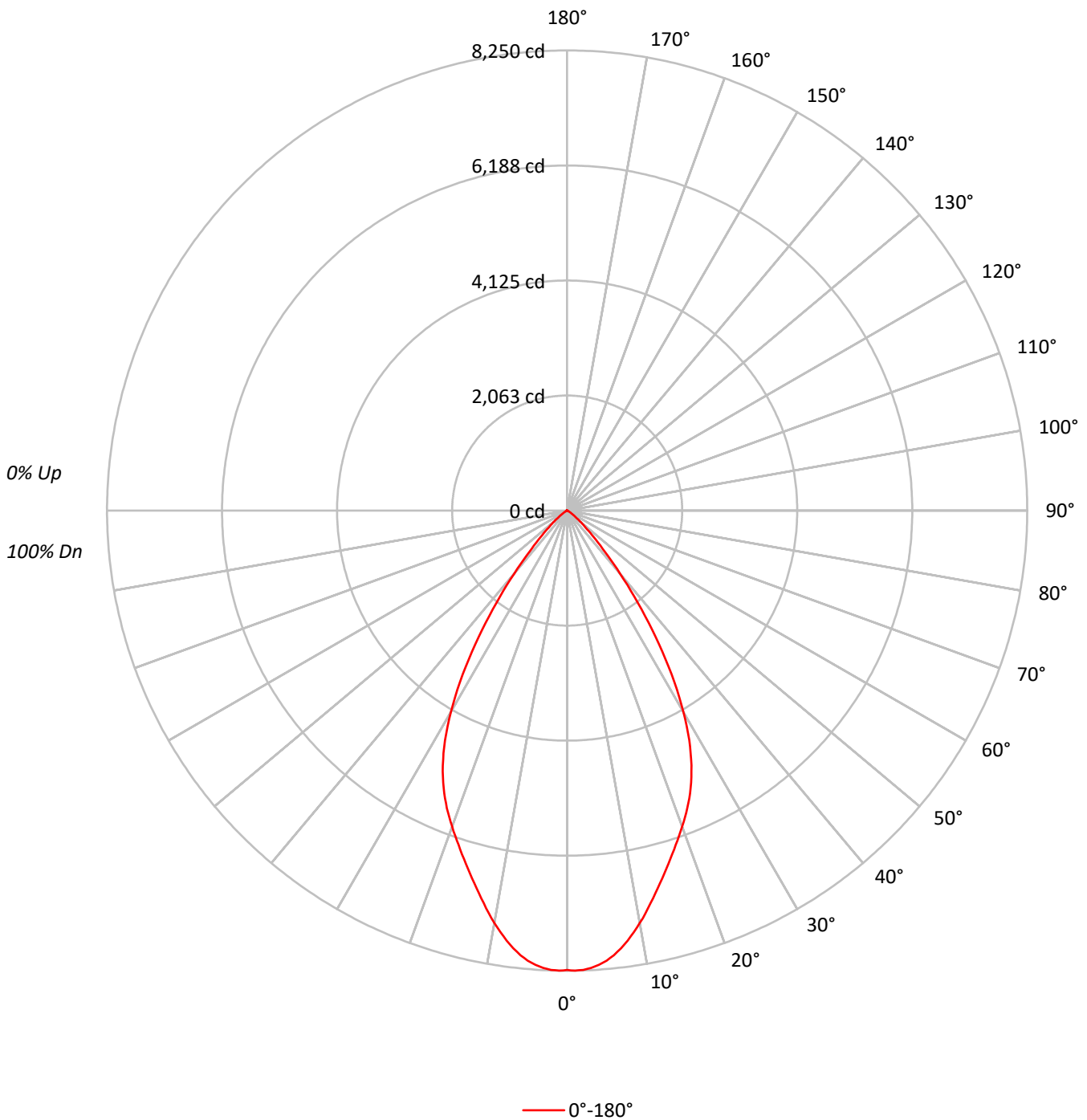
Input Watts (W): 74.4  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	111	108	106	111	108	106	104	104	103	101		101	99	98		97	96	95	93
2	108	103	99	95	105	101	97	94	98	95	92		95	92	90		92	90	88	86
3	102	95	90	86	100	94	89	86	91	87	84		89	86	83		87	84	82	80
4	97	89	83	79	95	88	82	78	86	81	77		84	80	77		82	78	76	74
5	92	83	77	73	90	82	76	72	80	75	72		79	74	71		77	73	70	69
6	87	78	72	67	85	77	71	67	75	70	66		74	69	66		73	69	66	64
7	82	73	67	62	81	72	66	62	71	66	62		70	65	61		68	64	61	60
8	78	68	62	58	77	68	62	58	67	61	58		66	61	57		65	60	57	56
9	74	64	58	54	73	64	58	54	63	58	54		62	57	54		61	57	54	52
10	71	61	55	51	70	60	55	51	60	54	51		59	54	51		58	54	50	49

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

	0°
0°	254030
5°	250756
10°	235084
15°	214971
20°	197903
25°	179324
30°	148484
35°	104131
40°	59258
45°	29083
50°	14344
55°	6511
60°	3084
65°	1671
70°	171
75°	226
80°	0
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	753.9	10.1
10°-20°	1890.3	25.3
20°-30°	2386.2	32.0
30°-40°	1716.5	23.0
40°-50°	568.2	7.6
50°-60°	123.7	1.7
60°-70°	25.4	0.3
70°-80°	2.5	0.0
80°-90°	1.3	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°	5030.4	67.4
0°-40°	6746.9	90.3
0°-60°	7438.8	99.6
0°-90°	7468.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7468.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	8238	
5°	8101	754
15°	6734	1890
25°	5270	2386
35°	2766	1717
45°	667	568
55°	121	124
65°	23	25
75°	2	2
85°	0	1
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	8238.0
1°	8249.5
2°	8239.9
3°	8212.7
4°	8162.2
5°	8100.9
6°	8016.6
7°	7906.9
8°	7785.8
9°	7653.4
10°	7507.8
11°	7359.2
12°	7197.3
13°	7041.3
14°	6884.4
15°	6733.8
16°	6585.6
17°	6443.5
18°	6302.7
19°	6167.2
20°	6030.8
21°	5891.1
22°	5754.7
23°	5606.3
24°	5446.3
25°	5270.5
26°	5085.9
27°	4880.4
28°	4663.0
29°	4421.6
30°	4170.1
31°	3905.5
32°	3627.1
33°	3334.9
34°	3049.2
35°	2766.2
37.5°	2077.4
40°	1472.1
42.5°	997.3
45°	666.9
47.5°	447.4
50°	299.0
52.5°	180.5
55°	121.1
57.5°	84.2



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**CANDELA DISTRIBUTION (continued):**

	0°
60°	50.0
62.5°	34.2
65°	22.9
67.5°	20.5
70°	1.9
72.5°	4.7
75°	1.9
77.5°	1.9
80°	0.0
82.5°	4.7
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)