

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: P247250

Luminaire Tested: **LSR8B80D010 EC8B80840 8LBW0WMH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247250  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-59)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B80D010 EC8B80840 8LBW0WMH  
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
80 CRI 4000 CCT WITH WARM HAZE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8196.0 lumens  
Efficiency: N/A  
Efficacy: 110.2 lumens/watt  
Spacing Criteria (0/90/45): 1.13 / 1.14 / 1.06  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

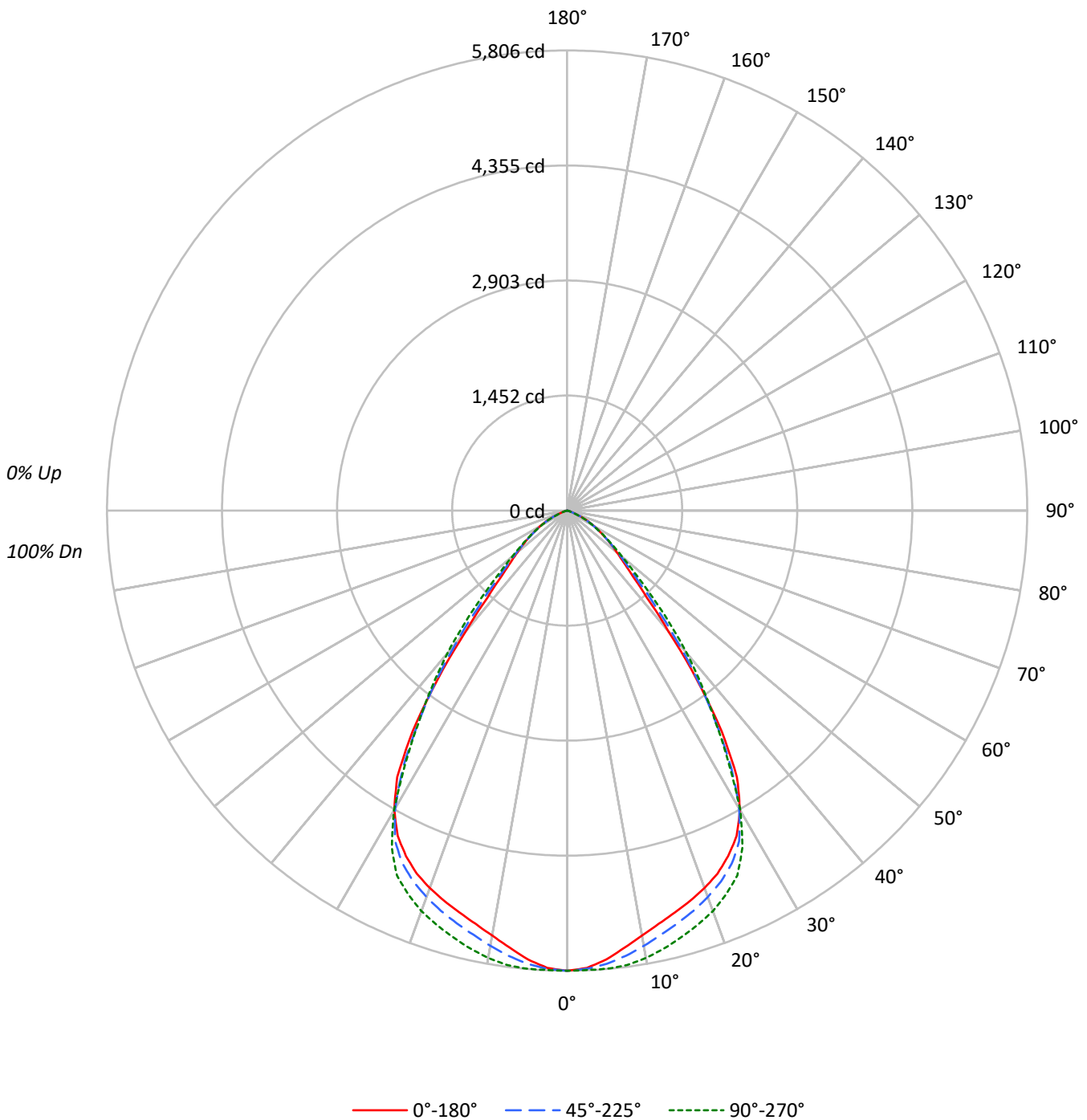
Input Watts (W): 74.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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					100			
1	112	109	106	104	110	107	104	102	103	101	99	99	98	96	96	94	93	91					91			
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	86	84	83					83			
3	99	91	85	81	97	90	84	80	87	83	79	85	81	78	82	79	76	75					75			
4	93	84	77	72	91	83	77	72	80	75	71	78	74	70	76	72	69	68					68			
5	87	77	70	65	85	76	70	65	74	69	64	72	68	64	71	67	63	61					61			
6	82	71	64	59	80	70	64	59	69	63	59	67	62	58	66	61	58	56					56			
7	77	66	59	54	75	65	59	54	64	58	54	63	57	53	61	57	53	51					51			
8	72	61	54	50	71	61	54	49	59	54	49	58	53	49	57	52	49	47					47			
9	68	57	50	46	67	57	50	46	56	50	45	55	49	45	54	49	45	44					44			
10	65	53	47	42	63	53	47	42	52	46	42	51	46	42	50	45	42	40					40			

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

	0°	45°	90°
0°	179033	179033	179033
5°	175965	177655	179624
10°	170469	174608	179462
15°	167586	172026	177894
20°	166265	170275	176438
25°	163636	167252	172863
30°	155259	154622	155612
35°	127979	123454	123153
40°	80182	87343	94581
45°	50818	56496	63600
50°	39127	40652	43511
55°	30977	30870	31993
60°	24139	23651	23528
65°	16235	15585	15148
70°	7438	6807	6446
75°	3550	3193	2955
80°	1758	1580	1580
85°	1061	1061	708



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	542.9	6.6
10°-20°	1524.6	18.6
20°-30°	2245.4	27.4
30°-40°	2042.3	24.9
40°-50°	1057.2	12.9
50°-60°	529.7	6.5
60°-70°	215.7	2.6
70°-80°	34.4	0.4
80°-90°	3.7	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°	4313.0	52.6
0°-40°	6355.3	77.5
0°-60°	7942.2	96.9
0°-90°	8196.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8196.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5806	5806	5806	5806	5806	
5°	5685	5700	5739	5783	5803	535
15°	5250	5285	5389	5513	5572	1484
25°	4809	4842	4916	5028	5081	2202
35°	3400	3378	3280	3252	3272	2050
45°	1165	1206	1296	1396	1458	960
55°	576	574	574	585	595	523
65°	222	222	214	211	208	224
75°	30	29	27	25	25	38
85°	3	3	3	2	2	4
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	5805.9	5805.9	5805.9	5805.9	5805.9
2.5°	5775.1	5778.1	5786.0	5794.9	5801.9
5°	5684.7	5699.6	5739.3	5783.0	5802.9
7.5°	5561.5	5594.3	5666.8	5748.3	5784.0
10°	5444.2	5482.0	5576.4	5685.7	5731.4
12.5°	5340.9	5377.7	5480.0	5602.2	5658.8
15°	5249.5	5285.3	5388.6	5512.8	5572.4
17.5°	5163.1	5195.9	5294.2	5418.4	5479.0
20°	5066.7	5095.5	5188.9	5309.1	5376.7
22.5°	4957.4	4979.3	5066.7	5181.0	5240.6
25°	4809.4	4842.2	4915.7	5028.0	5080.6
27.5°	4628.6	4649.5	4700.1	4768.7	4790.5
30°	4360.4	4359.4	4342.5	4342.5	4370.3
32.5°	3987.8	3940.1	3859.7	3811.0	3807.0
35°	3399.7	3377.8	3279.5	3251.6	3271.5
37.5°	2682.4	2697.3	2722.1	2761.9	2797.6
40°	1991.9	2029.7	2169.8	2294.9	2349.6
42.5°	1486.2	1534.9	1678.0	1815.1	1881.6
45°	1165.3	1206.1	1295.5	1395.8	1458.4
47.5°	963.7	984.5	1032.2	1099.8	1131.6
50°	815.6	825.6	847.4	882.2	907.0
52.5°	692.5	688.5	700.4	723.3	732.2
55°	576.2	574.2	574.2	585.2	595.1
57.5°	477.9	474.9	468.9	473.9	476.9
60°	391.4	388.4	383.5	382.5	381.5
62.5°	314.9	310.0	300.0	298.0	298.0
65°	222.5	221.5	213.6	210.6	207.6
67.5°	138.1	134.1	127.2	121.2	120.2
70°	82.5	81.5	75.5	71.5	71.5
72.5°	49.7	47.7	44.7	42.7	41.7
75°	29.8	28.8	26.8	24.8	24.8
77.5°	17.9	16.9	15.9	14.9	14.9
80°	9.9	9.9	8.9	8.9	8.9
82.5°	6.0	6.0	5.0	5.0	5.0
85°	3.0	3.0	3.0	2.0	2.0
87.5°	1.0	1.0	1.0	1.0	1.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)