

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: P247490

Luminaire Tested: **LSR8B80D010 EC8B80840 8LBW0GPH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247490
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-61)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B80D010 EC8B80840 8LBW0GPH
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 4000 CCT WITH GRAPHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7541.0 lumens
Efficiency: N/A
Efficacy: 101.4 lumens/watt
Spacing Criteria (0/90/45): 1.12 / 1.13 / 1.05
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

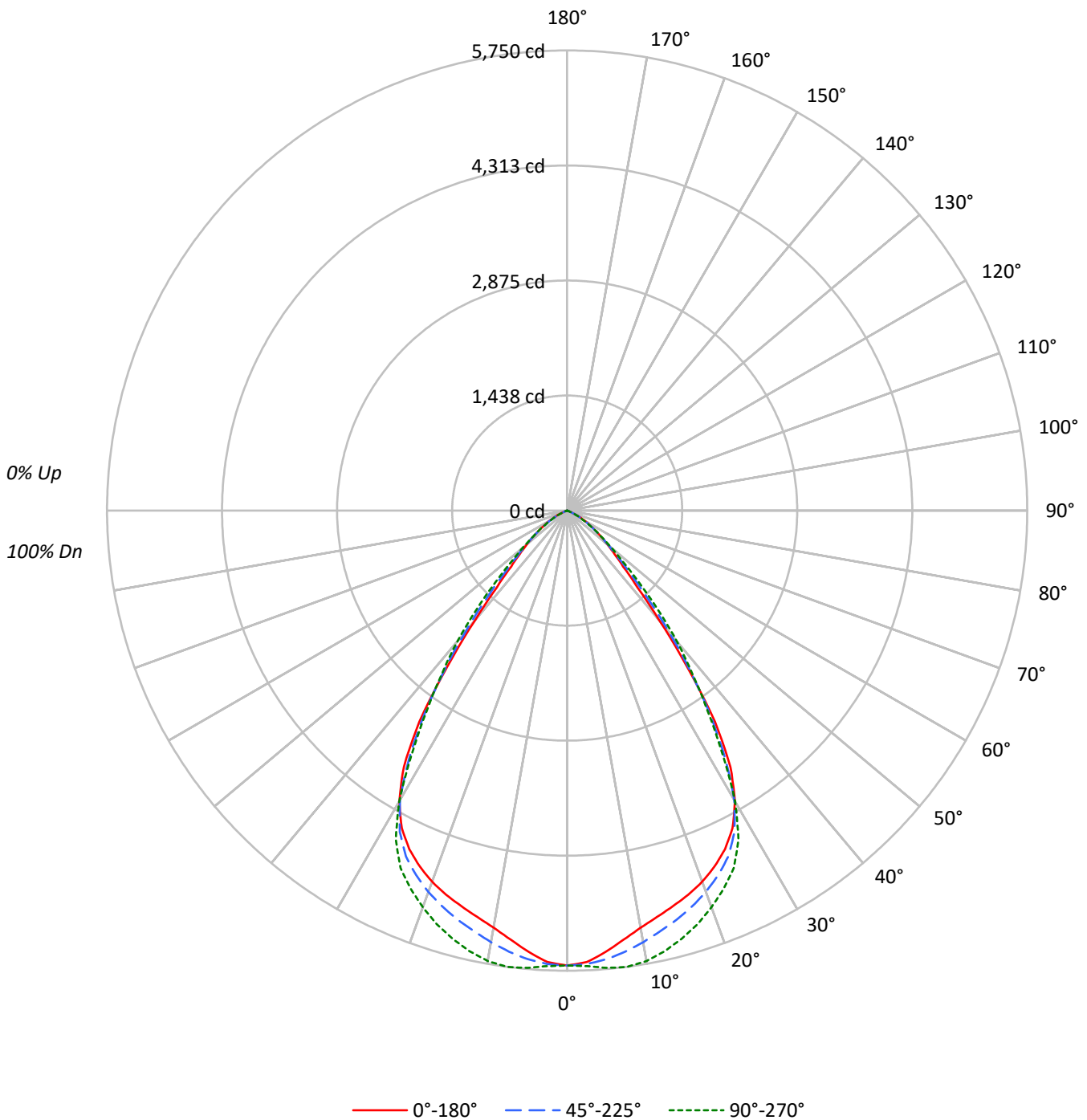
Input Watts (W): 74.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	113	110	107	104	110	107	105	103	103	101	100	100	98	97	96	95	94					92				
2	106	101	96	92	104	99	95	91	96	92	89	93	90	87	90	88	85					84				
3	100	93	87	82	98	91	86	82	88	84	80	86	82	79	84	81	78					76				
4	94	85	79	74	92	84	78	74	82	77	73	80	75	72	78	74	71					69				
5	88	79	72	67	86	78	72	67	76	70	66	74	69	66	72	68	65					63				
6	83	73	66	61	81	72	66	61	70	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					53				
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	48	57	52	47	56	51	47	55	51	47					46				
10	66	55	49	44	65	55	48	44	54	48	44	53	48	44	52	47	44					42				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	175304	175304	175304
5°	171331	174219	177540
10°	165659	171446	178911
15°	163317	168898	176732
20°	161944	166377	173058
25°	158818	162196	167637
30°	149295	148729	149438
35°	121305	117232	115436
40°	72014	79373	85970
45°	43103	48520	55100
50°	31403	32214	34598
55°	22752	21951	22429
60°	15437	14277	13722
65°	7756	7172	6815
70°	2146	1884	1704
75°	834	596	596
80°	355	355	178
85°	354	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	533.0	7.1
10°-20°	1496.9	19.8
20°-30°	2175.6	28.8
30°-40°	1923.9	25.5
40°-50°	915.2	12.1
50°-60°	381.2	5.1
60°-70°	106.5	1.4
70°-80°	8.1	0.1
80°-90°	0.6	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°	4205.5	55.8
0°-40°	6129.4	81.3
0°-60°	7425.9	98.5
0°-90°	7541.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7541.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5685	5685	5685	5685	5685	
5°	5535	5563	5628	5703	5736	520
15°	5116	5162	5291	5452	5536	1445
25°	4668	4689	4767	4872	4927	2133
35°	3222	3177	3114	3066	3066	1929
45°	988	1023	1113	1216	1264	823
55°	423	418	408	408	417	385
65°	106	104	98	94	93	116
75°	7	6	5	5	5	9
85°	1	1	0	0	0	1
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5685.0	5685.0	5685.0	5685.0	5685.0
2.5°	5647.2	5652.2	5671.1	5688.9	5696.9
5°	5535.0	5562.8	5628.3	5702.8	5735.6
7.5°	5406.8	5448.5	5558.8	5689.9	5750.5
10°	5290.6	5343.2	5475.4	5637.3	5713.8
12.5°	5199.2	5247.9	5383.0	5551.8	5638.3
15°	5115.8	5162.5	5290.6	5451.5	5536.0
17.5°	5032.3	5077.0	5187.3	5337.3	5418.7
20°	4935.0	4970.7	5070.1	5202.2	5273.7
22.5°	4813.8	4846.6	4930.0	5047.2	5111.8
25°	4667.8	4688.6	4767.1	4872.4	4927.0
27.5°	4474.1	4479.0	4526.7	4595.3	4636.0
30°	4192.9	4190.0	4177.0	4174.1	4196.9
32.5°	3799.6	3755.9	3680.4	3644.6	3616.8
35°	3222.4	3176.7	3114.2	3066.5	3066.5
37.5°	2463.5	2503.2	2528.1	2557.9	2572.8
40°	1789.0	1847.6	1971.8	2100.9	2135.7
42.5°	1300.3	1354.9	1489.0	1633.1	1674.8
45°	988.4	1023.2	1112.6	1215.9	1263.5
47.5°	798.7	808.6	853.3	914.9	937.7
50°	654.6	657.6	671.5	703.3	721.2
52.5°	529.5	527.5	531.4	540.4	548.3
55°	423.2	418.2	408.3	408.3	417.2
57.5°	326.8	319.9	308.9	304.0	301.0
60°	250.3	243.4	231.5	223.5	222.5
62.5°	179.8	173.8	161.9	155.0	153.0
65°	106.3	104.3	98.3	94.4	93.4
67.5°	49.7	47.7	42.7	40.7	39.7
70°	23.8	22.8	20.9	19.9	18.9
72.5°	11.9	11.9	9.9	9.9	9.9
75°	7.0	6.0	5.0	5.0	5.0
77.5°	4.0	3.0	3.0	3.0	3.0
80°	2.0	2.0	2.0	1.0	1.0
82.5°	1.0	1.0	1.0	1.0	1.0
85°	1.0	1.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)