

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: P250169

Luminaire Tested: **LSR8B80D010 EC8B80935 8LBM0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P250169
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13942)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B80D010 EC8B80935 8LBM0WH
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
90 CRI 3500 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7160.0 lumens
Efficiency: N/A
Efficacy: 96.2 lumens/watt
Spacing Criteria (0/90/45): 0.84 / 0.8 / 0.85
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

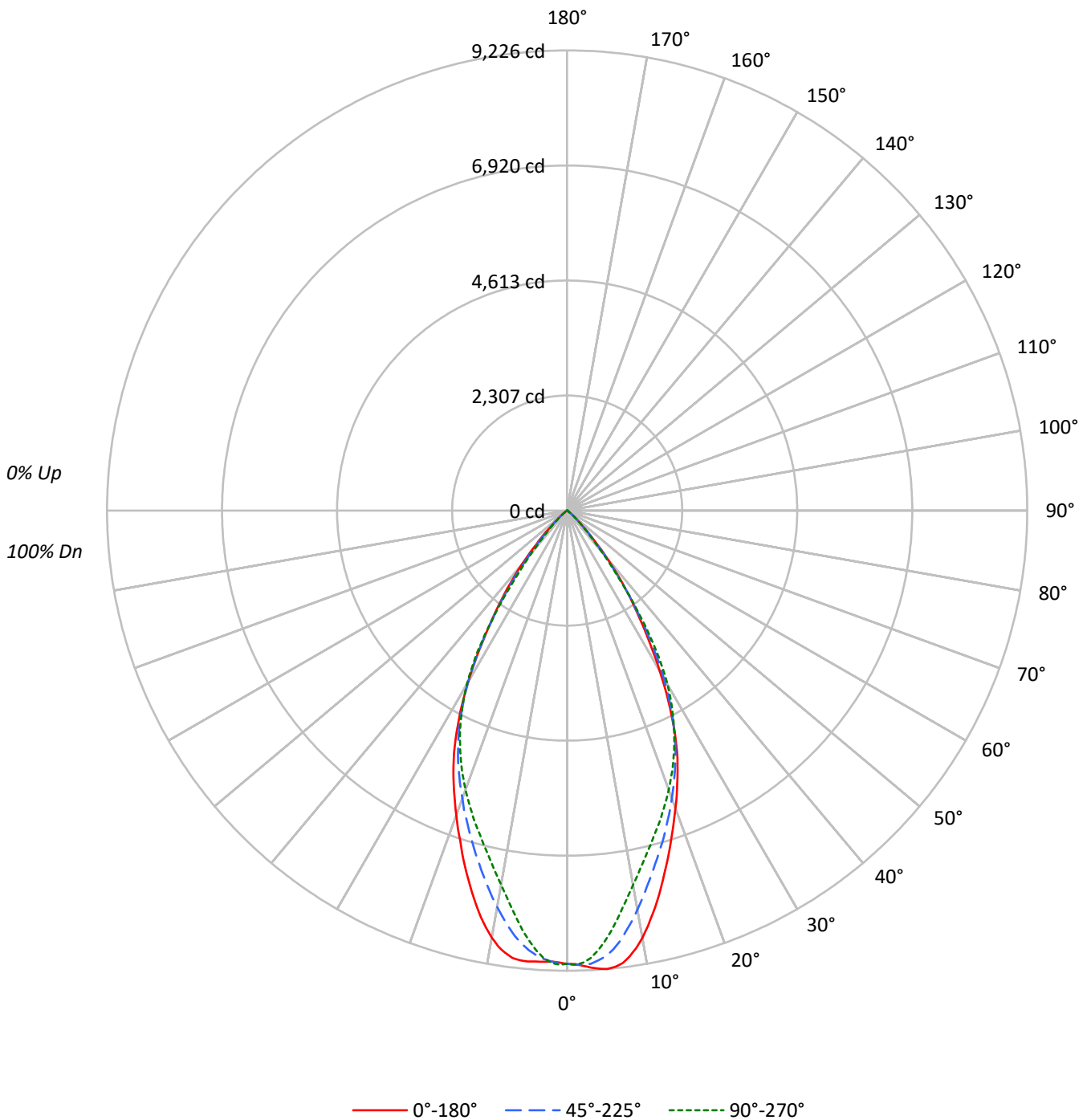
Input Watts (W): 74.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	100	100	100	100	100		
1	114	111	108	106	111	109	107	105	105	103	101	101	100	98	98	97	96	94	94	94	94	94	94	94		
2	108	103	99	96	106	102	98	95	98	95	93	95	93	91	93	91	89	87	87	87	87	87	87	87		
3	103	97	92	88	101	95	91	87	93	89	86	90	87	84	88	85	83	81	81	81	81	81	81	81		
4	98	90	85	81	96	89	84	80	87	83	79	85	81	78	83	80	77	76	76	76	76	76	76	76		
5	93	85	79	75	91	84	78	74	82	77	74	80	76	73	79	75	72	71	71	71	71	71	71	71		
6	88	80	74	69	87	79	73	69	77	72	69	76	72	68	75	71	68	66	66	66	66	66	66	66		
7	84	75	69	65	83	74	69	65	73	68	64	72	67	64	71	67	64	62	62	62	62	62	62	62		
8	80	71	65	61	79	70	64	61	69	64	60	68	63	60	67	63	60	58	58	58	58	58	58	58		
9	76	67	61	57	75	66	61	57	65	60	57	64	60	56	64	59	56	55	55	55	55	55	55	55		
10	73	63	57	54	72	63	57	54	62	57	53	61	56	53	60	56	53	52	52	52	52	52	52	52		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	280200	280200	280200
5°	285579	268276	280927
10°	272277	238660	272208
15°	240433	215255	244523
20°	208358	195379	213286
25°	176044	173036	182509
30°	132315	143249	141359
35°	88573	93644	96057
40°	49625	42597	56915
45°	19942	17535	23702
50°	6889	6678	8160
55°	1903	2258	2140
60°	1092	1363	1227
65°	963	803	642
70°	0	595	397
75°	0	0	0
80°	0	0	391
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	824.9	11.5
10°-20°	1995.1	27.9
20°-30°	2338.4	32.7
30°-40°	1538.5	21.5
40°-50°	401.5	5.6
50°-60°	49.4	0.7
60°-70°	10.2	0.1
70°-80°	1.9	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°	5158.4	72.0
0°-40°	6696.9	93.5
0°-60°	7147.8	99.8
0°-90°	7160.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7160.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	9087	9087	9087	9087	9087	
5°	9226	8963	8667	8846	9076	864
15°	7531	7105	6743	7105	7660	2099
25°	5174	5123	5086	5172	5364	2333
35°	2353	2406	2488	2512	2552	1473
45°	457	431	402	466	544	410
55°	35	38	42	42	40	47
65°	13	11	11	9	9	9
75°	0	2	0	0	0	1
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	9086.7	9086.7	9086.7	9086.7	9086.7	9086.7	9086.7	9086.7	9086.7
1°	9093.3	9106.6	9111.0	9124.2	9104.4	9091.1	9073.4	9060.1	9062.4
2°	9133.1	9139.7	9115.4	9106.6	9071.2	9060.1	9046.9	9044.7	9046.9
3°	9175.1	9161.8	9097.7	9038.1	8985.1	8978.4	9002.7	9038.1	9057.9
4°	9208.2	9172.8	9038.1	8927.6	8843.6	8837.0	8934.2	9024.8	9062.4
5°	9225.9	9161.8	8962.9	8777.4	8666.9	8708.9	8845.9	9007.1	9075.6
6°	9201.5	9106.6	8848.1	8600.7	8474.7	8529.9	8731.0	8965.2	9066.8
7°	9139.7	9018.2	8700.1	8408.4	8253.8	8339.9	8596.2	8894.5	9033.6
8°	9024.8	8879.0	8512.3	8185.3	8032.8	8130.0	8430.5	8792.8	8954.1
9°	8874.6	8713.3	8326.7	7982.0	7818.6	7933.4	8258.2	8658.1	8843.6
10°	8695.6	8523.3	8121.2	7770.0	7622.0	7730.2	8072.6	8501.2	8693.4
11°	8485.7	8320.0	7915.8	7571.1	7429.7	7535.8	7887.0	8313.4	8521.1
12°	8258.2	8105.8	7705.9	7378.9	7246.4	7348.0	7688.2	8119.0	8324.5
13°	8030.6	7878.2	7502.7	7193.3	7071.8	7169.0	7493.8	7906.9	8112.4
14°	7785.4	7646.2	7299.4	7016.6	6906.1	6998.9	7295.0	7692.6	7887.0
15°	7531.4	7420.9	7105.0	6846.5	6742.7	6831.0	7105.0	7471.7	7659.5
16°	7292.7	7191.1	6917.2	6678.6	6592.4	6663.1	6912.8	7250.8	7429.7
17°	7049.7	6956.9	6729.4	6512.9	6435.6	6504.1	6716.1	7027.7	7188.9
18°	6806.7	6729.4	6524.0	6338.4	6269.9	6331.7	6521.7	6802.3	6948.1
19°	6581.4	6510.7	6336.2	6179.3	6117.4	6172.6	6351.6	6585.8	6731.6
20°	6349.4	6291.9	6139.5	6011.4	5953.9	6004.7	6143.9	6371.5	6499.6
21°	6126.3	6075.4	5942.9	5834.6	5788.2	5830.2	5958.4	6163.8	6276.5
22°	5894.3	5865.6	5746.3	5655.7	5624.8	5651.3	5768.3	5945.1	6051.2
23°	5666.7	5640.2	5549.6	5474.5	5448.0	5474.5	5578.4	5737.4	5832.5
24°	5437.0	5408.3	5342.0	5293.4	5271.3	5293.4	5381.7	5516.5	5607.1
25°	5174.1	5169.7	5123.3	5096.7	5085.7	5110.0	5171.9	5289.0	5364.1
26°	4922.2	4909.0	4895.7	4891.3	4893.5	4906.7	4957.6	5045.9	5105.6
27°	4612.9	4632.8	4652.7	4679.2	4688.0	4699.1	4723.4	4787.4	4831.7
28°	4316.9	4354.4	4403.0	4456.1	4480.4	4480.4	4482.6	4517.9	4555.5
29°	4023.1	4062.8	4140.2	4219.7	4252.8	4248.4	4230.7	4246.2	4268.3
30°	3716.0	3766.8	3870.6	3974.5	4023.1	4005.4	3972.3	3956.8	3970.0
31°	3415.5	3466.3	3581.2	3693.9	3757.9	3738.1	3680.6	3669.6	3676.2
32°	3128.3	3179.1	3285.1	3404.4	3477.4	3450.9	3391.2	3373.5	3375.7
33°	2849.9	2889.7	2986.9	3097.4	3157.0	3150.4	3101.8	3079.7	3081.9
34°	2587.1	2620.2	2693.1	2777.1	2834.5	2832.3	2796.9	2799.1	2805.8
35°	2352.9	2370.6	2405.9	2452.3	2487.6	2507.5	2511.9	2529.6	2551.7
37.5°	1778.5	1785.1	1743.1	1696.7	1687.9	1745.3	1844.7	1930.9	1964.0
40°	1232.8	1217.3	1164.3	1082.5	1058.2	1122.3	1248.2	1369.7	1413.9
42.5°	766.6	760.0	726.8	665.0	642.9	680.5	775.4	868.3	912.4
45°	457.3	448.5	430.8	406.5	402.1	417.5	466.1	519.2	543.5
47.5°	262.9	260.7	249.6	240.8	238.6	249.6	271.7	302.7	309.3
50°	143.6	141.4	139.2	139.2	139.2	145.8	156.9	165.7	170.1
52.5°	70.7	72.9	70.7	72.9	75.1	79.5	77.3	86.2	86.2
55°	35.4	33.1	37.6	42.0	42.0	42.0	42.0	42.0	39.8
57.5°	26.5	28.7	24.3	26.5	24.3	24.3	22.1	24.3	26.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
60°	17.7	15.5	17.7	19.9	22.1	19.9	15.5	17.7	19.9
62.5°	8.8	8.8	8.8	13.2	19.9	15.5	13.2	11.0	11.0
65°	13.2	8.8	11.0	13.2	11.0	11.0	8.8	11.0	8.8
67.5°	6.6	11.0	6.6	4.4	6.6	8.8	6.6	4.4	4.4
70°	0.0	2.2	2.2	6.6	6.6	6.6	6.6	4.4	4.4
72.5°	2.2	2.2	2.2	4.4	2.2	4.4	2.2	2.2	4.4
75°	0.0	0.0	2.2	2.2	0.0	2.2	0.0	0.0	0.0
77.5°	2.2	0.0	2.2	2.2	0.0	0.0	0.0	2.2	0.0
80°	0.0	0.0	2.2	0.0	0.0	0.0	0.0	0.0	2.2
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)