

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: P250190

Luminaire Tested: **LSR8B80D010 EC8B809727 8LBM0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P250190
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 EC8B809727 8LBM0WH
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
97 CRI 2700 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5846.0 lumens
Efficiency: N/A
Efficacy: 78.6 lumens/watt
Spacing Criteria (0/90/45): 0.84 / 0.8 / 0.85
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

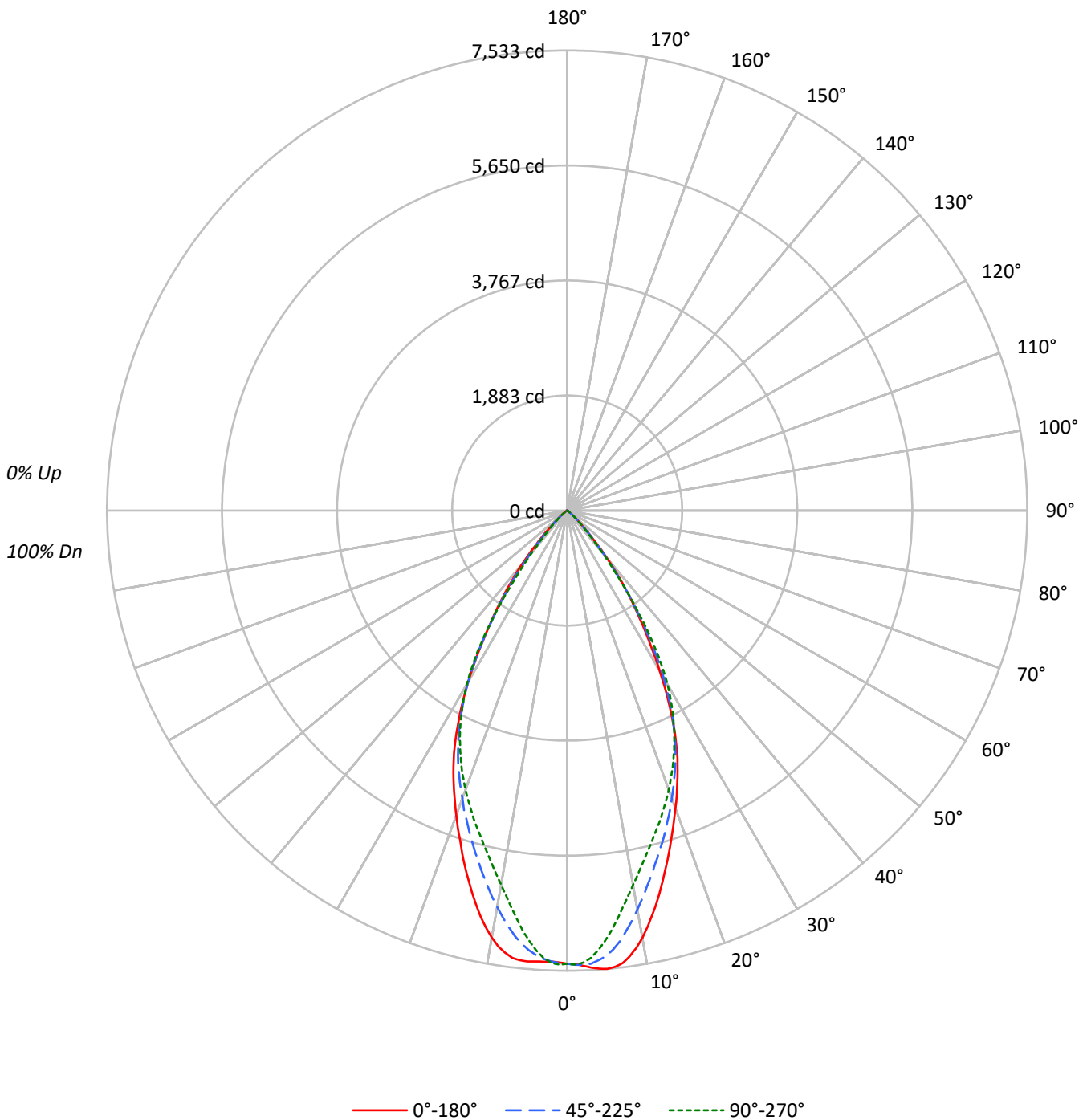
Input Watts (W): 74.4
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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		
1	114	111	108	106	111	109	107	105	105	103	101	101	100	98	98	97	96	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		
3	103	97	92	88	101	95	91	87	93	89	86	90	87	84	88	85	83	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		
5	93	85	79	75	91	84	78	74	82	77	74	80	76	73	79	75	72	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		
7	84	75	69	65	83	74	69	65	73	68	64	72	67	64	71	67	64	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		
9	76	67	61	57	75	66	61	57	65	60	57	64	60	56	64	59	56	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		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	Luminaire represents a point source (luminous area is zero).		
5°	No luminance values can be calculated.		
10°			
15°			
20°			
25°			
30°			
35°			
40°			
45°			
50°			
55°			
60°			
65°			
70°			
75°			
80°			
85°			



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	673.5	11.5
10°-20°	1629.0	27.9
20°-30°	1909.2	32.7
30°-40°	1256.2	21.5
40°-50°	327.8	5.6
50°-60°	40.3	0.7
60°-70°	8.4	0.1
70°-80°	1.5	0.0
80°-90°	0.0	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°	4211.7	72.0
0°-40°	5467.9	93.5
0°-60°	5836.0	99.8
0°-90°	5846.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5846.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	7419	7419	7419	7419	7419	
5°	7533	7318	7076	7222	7410	706
15°	6149	5801	5505	5801	6254	1714
25°	4225	4183	4152	4223	4380	1905
35°	1921	1964	2031	2051	2083	1203
45°	373	352	328	381	444	335
55°	29	31	34	34	32	38
65°	11	9	9	7	7	8
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°	7419.1	7419.1	7419.1	7419.1	7419.1	7419.1	7419.1	7419.1	7419.1
1°	7424.5	7435.3	7438.9	7449.8	7433.5	7422.7	7408.3	7397.4	7399.2
2°	7457.0	7462.4	7442.5	7435.3	7406.5	7397.4	7386.6	7384.8	7386.6
3°	7491.3	7480.4	7428.1	7379.4	7336.1	7330.7	7350.6	7379.4	7395.6
4°	7518.3	7489.4	7379.4	7289.2	7220.7	7215.3	7294.6	7368.6	7399.2
5°	7532.7	7480.4	7318.1	7166.5	7076.4	7110.6	7222.5	7354.1	7410.0
6°	7512.9	7435.3	7224.3	7022.3	6919.4	6964.5	7128.7	7319.9	7402.9
7°	7462.4	7363.2	7103.4	6865.3	6739.0	6809.4	7018.6	7262.1	7375.8
8°	7368.6	7249.5	6950.1	6683.1	6558.7	6638.0	6883.4	7179.2	7310.9
9°	7245.9	7114.2	6798.6	6517.2	6383.7	6477.5	6742.7	7069.1	7220.7
10°	7099.8	6959.1	6630.8	6344.0	6223.2	6311.5	6591.1	6941.1	7098.0
11°	6928.4	6793.2	6463.1	6181.7	6066.2	6152.8	6439.6	6787.8	6957.3
12°	6742.7	6618.2	6291.7	6024.7	5916.5	5999.5	6277.3	6629.0	6796.8
13°	6556.8	6432.4	6125.8	5873.2	5774.0	5853.4	6118.5	6455.9	6623.6
14°	6356.6	6243.0	5959.8	5728.9	5638.7	5714.5	5956.2	6280.9	6439.6
15°	6149.2	6059.0	5801.1	5590.0	5505.3	5577.4	5801.1	6100.5	6253.8
16°	5954.4	5871.4	5647.7	5452.9	5382.6	5440.3	5644.2	5920.1	6066.2
17°	5756.0	5680.2	5494.4	5317.6	5254.5	5310.4	5483.6	5737.9	5869.6
18°	5557.6	5494.4	5326.7	5175.2	5119.2	5169.7	5324.9	5553.9	5673.0
19°	5373.6	5315.8	5173.4	5045.3	4994.8	5039.8	5186.0	5377.2	5496.2
20°	5184.2	5137.2	5012.8	4908.2	4861.3	4902.8	5016.4	5202.2	5306.8
21°	5002.0	4960.5	4852.3	4763.9	4726.0	4760.3	4864.9	5032.6	5124.6
22°	4812.6	4789.1	4691.7	4617.8	4592.5	4614.1	4709.7	4854.1	4940.7
23°	4626.8	4605.1	4531.2	4469.9	4448.2	4469.9	4554.6	4684.5	4762.1
24°	4439.2	4415.8	4361.6	4321.9	4303.9	4321.9	4394.1	4504.1	4578.1
25°	4224.6	4220.9	4183.1	4161.4	4152.4	4172.2	4222.7	4318.3	4379.6
26°	4018.9	4008.1	3997.3	3993.6	3995.4	4006.3	4047.7	4119.9	4168.6
27°	3766.4	3782.6	3798.8	3820.5	3827.7	3836.7	3856.5	3908.8	3944.9
28°	3524.6	3555.3	3595.0	3638.3	3658.2	3658.2	3659.9	3688.8	3719.5
29°	3284.8	3317.2	3380.4	3445.3	3472.3	3468.7	3454.3	3466.9	3485.0
30°	3034.0	3075.5	3160.3	3245.1	3284.8	3270.3	3243.3	3230.6	3241.5
31°	2788.7	2830.2	2924.0	3016.0	3068.3	3052.1	3005.2	2996.1	3001.5
32°	2554.2	2595.7	2682.3	2779.7	2839.2	2817.6	2768.8	2754.4	2756.2
33°	2326.9	2359.4	2438.8	2529.0	2577.6	2572.2	2532.5	2514.5	2516.3
34°	2112.3	2139.3	2198.8	2267.4	2314.3	2312.5	2283.6	2285.4	2290.9
35°	1921.1	1935.5	1964.3	2002.2	2031.1	2047.3	2050.9	2065.4	2083.4
37.5°	1452.1	1457.5	1423.2	1385.3	1378.1	1425.0	1506.2	1576.5	1603.6
40°	1006.5	993.9	950.6	883.9	864.0	916.4	1019.2	1118.4	1154.4
42.5°	625.9	620.5	593.5	543.0	524.9	555.6	633.1	708.9	745.0
45°	373.4	366.2	351.7	331.9	328.3	340.9	380.6	423.9	443.7
47.5°	214.6	212.9	203.8	196.6	194.8	203.8	221.9	247.1	252.5
50°	117.2	115.5	113.7	113.7	113.7	119.0	128.1	135.3	138.9
52.5°	57.7	59.5	57.7	59.5	61.3	64.9	63.1	70.4	70.4
55°	28.9	27.1	30.7	34.3	34.3	34.3	34.3	34.3	32.5
57.5°	21.6	23.4	19.9	21.6	19.9	19.9	18.1	19.9	21.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
60°	14.4	12.6	14.4	16.2	18.1	16.2	12.6	14.4	16.2
62.5°	7.2	7.2	7.2	10.8	16.2	12.6	10.8	9.0	9.0
65°	10.8	7.2	9.0	10.8	9.0	9.0	7.2	9.0	7.2
67.5°	5.4	9.0	5.4	3.6	5.4	7.2	5.4	3.6	3.6
70°	0.0	1.8	1.8	5.4	5.4	5.4	5.4	3.6	3.6
72.5°	1.8	1.8	1.8	3.6	1.8	3.6	1.8	1.8	3.6
75°	0.0	0.0	1.8	1.8	0.0	1.8	0.0	0.0	0.0
77.5°	1.8	0.0	1.8	1.8	0.0	0.0	0.0	1.8	0.0
80°	0.0	0.0	1.8	0.0	0.0	0.0	0.0	0.0	1.8
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)