

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: P247526

Luminaire Tested: **LSR8B80D010 EC8B80827 8LBS0GPH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247526
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-86)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B80D010 EC8B80827 8LBS0GPH
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 2700 CCT WITH GRAPHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7841.0 lumens
Efficiency: N/A
Efficacy: 105.4 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.19 / 1.23
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

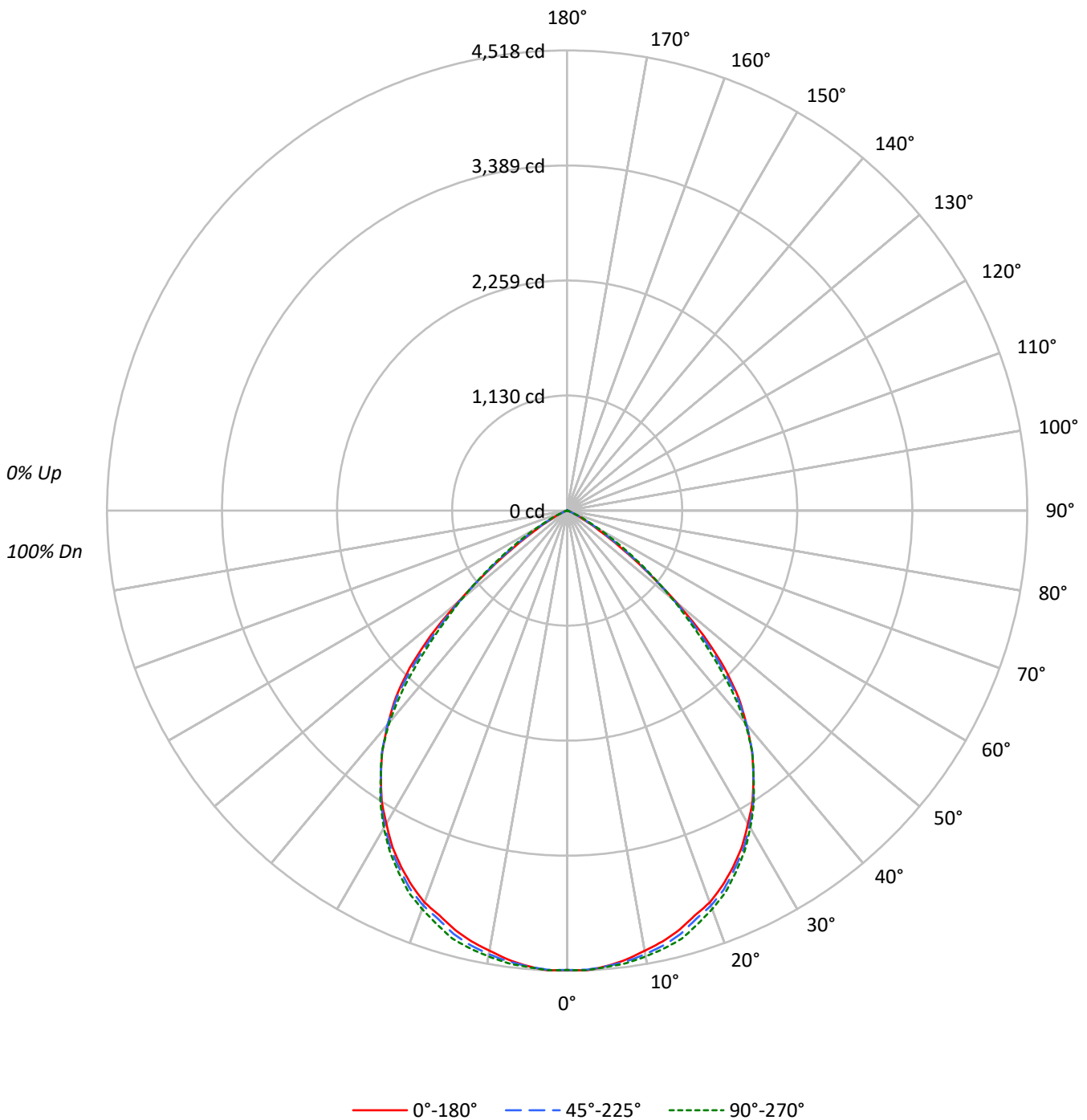
Input Watts (W): 74.4
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	103	110	107	104	102	103	100	98	99	97	95	95	94	93	91					91			
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	85	83	81					81			
3	98	90	84	79	96	88	83	78	86	81	77	83	79	76	81	77	74	73					73			
4	91	82	75	70	89	81	74	69	78	73	68	76	71	68	74	70	67	65					65			
5	85	75	67	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58					58			
6	79	68	61	56	78	68	61	56	66	60	55	64	59	55	63	58	54	53					53			
7	74	63	55	50	73	62	55	50	61	54	50	59	54	50	58	53	49	48					48			
8	70	58	51	46	68	57	50	46	56	50	45	55	49	45	54	49	45	43					43			
9	65	54	47	42	64	53	46	42	52	46	41	51	45	41	50	45	41	39					39			
10	62	50	43	38	60	49	43	38	48	42	38	48	42	38	47	42	38	36					36			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	139096	139096	139096
5°	138928	138987	139191
10°	137422	138481	139185
15°	136006	137414	138911
20°	134352	135429	136600
25°	131258	132214	133300
30°	126439	127408	128077
35°	119972	120077	120111
40°	110235	110425	109293
45°	95369	92015	87920
50°	66879	65531	64677
55°	36316	39343	41912
60°	16029	19556	22159
65°	6158	7734	9245
70°	3129	2795	3633
75°	1001	1894	1680
80°	835	160	994
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	426.7	5.4
10°-20°	1211.8	15.5
20°-30°	1787.0	22.8
30°-40°	1989.0	25.4
40°-50°	1600.8	20.4
50°-60°	680.7	8.7
60°-70°	127.6	1.6
70°-80°	15.5	0.2
80°-90°	1.9	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°	3425.5	43.7
0°-40°	5414.5	69.1
0°-60°	7696.0	98.2
0°-90°	7841.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7841.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4511	4511	4511	4511	4511	
5°	4488	4489	4490	4498	4497	425
15°	4260	4284	4304	4337	4351	1200
25°	3858	3872	3886	3908	3918	1773
35°	3187	3188	3190	3191	3191	1985
45°	2187	2169	2110	2046	2016	1644
55°	676	690	732	761	780	643
65°	84	94	106	114	127	109
75°	8	10	16	15	14	14
85°	0	0	0	0	0	2
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4510.8	4510.8	4510.8	4510.8	4510.8
2.5°	4518.3	4521.1	4511.7	4513.6	4516.4
5°	4488.2	4489.2	4490.1	4497.6	4496.7
7.5°	4446.0	4452.6	4463.9	4477.9	4481.7
10°	4388.8	4405.7	4422.6	4439.5	4445.1
12.5°	4332.5	4342.8	4372.8	4389.7	4403.8
15°	4260.3	4283.7	4304.4	4337.2	4351.3
17.5°	4168.3	4185.2	4204.9	4237.8	4257.5
20°	4094.2	4098.9	4127.0	4156.1	4162.7
22.5°	3984.4	3994.8	4023.8	4043.5	4060.4
25°	3857.8	3871.9	3885.9	3908.4	3917.8
27.5°	3718.9	3727.4	3747.1	3763.0	3771.5
30°	3551.0	3569.8	3578.2	3585.7	3597.0
32.5°	3387.8	3393.4	3400.9	3405.6	3411.2
35°	3187.0	3187.9	3189.8	3190.7	3190.7
37.5°	2981.5	2988.1	2986.2	2980.6	2983.4
40°	2738.5	2749.8	2743.2	2726.3	2715.1
42.5°	2493.7	2488.0	2465.5	2414.9	2391.4
45°	2186.9	2169.1	2110.0	2046.2	2016.1
47.5°	1819.1	1779.7	1730.0	1680.3	1660.6
50°	1394.1	1388.5	1366.0	1346.3	1348.2
52.5°	999.2	1013.2	1017.9	1036.7	1046.1
55°	675.5	690.5	731.8	760.9	779.6
57.5°	410.9	440.0	484.1	531.9	556.3
60°	259.9	276.8	317.1	348.1	359.3
62.5°	162.3	163.2	182.9	207.3	217.7
65°	84.4	93.8	106.0	113.5	126.7
67.5°	52.5	52.5	51.6	62.9	70.4
70°	34.7	30.0	31.0	37.5	40.3
72.5°	12.2	20.6	18.8	18.8	13.1
75°	8.4	10.3	15.9	15.0	14.1
77.5°	11.3	10.3	7.5	6.6	13.1
80°	4.7	3.8	0.9	5.6	5.6
82.5°	4.7	1.9	5.6	7.5	4.7
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.9	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)