

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: P247238

Luminaire Tested: **LSR8B80D010 EC8B80827 8LBW0WMH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247238
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 EC8B80827 8LBW0WMH
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 2700 CCT WITH WARM HAZE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7740.0 lumens
Efficiency: N/A
Efficacy: 104.0 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

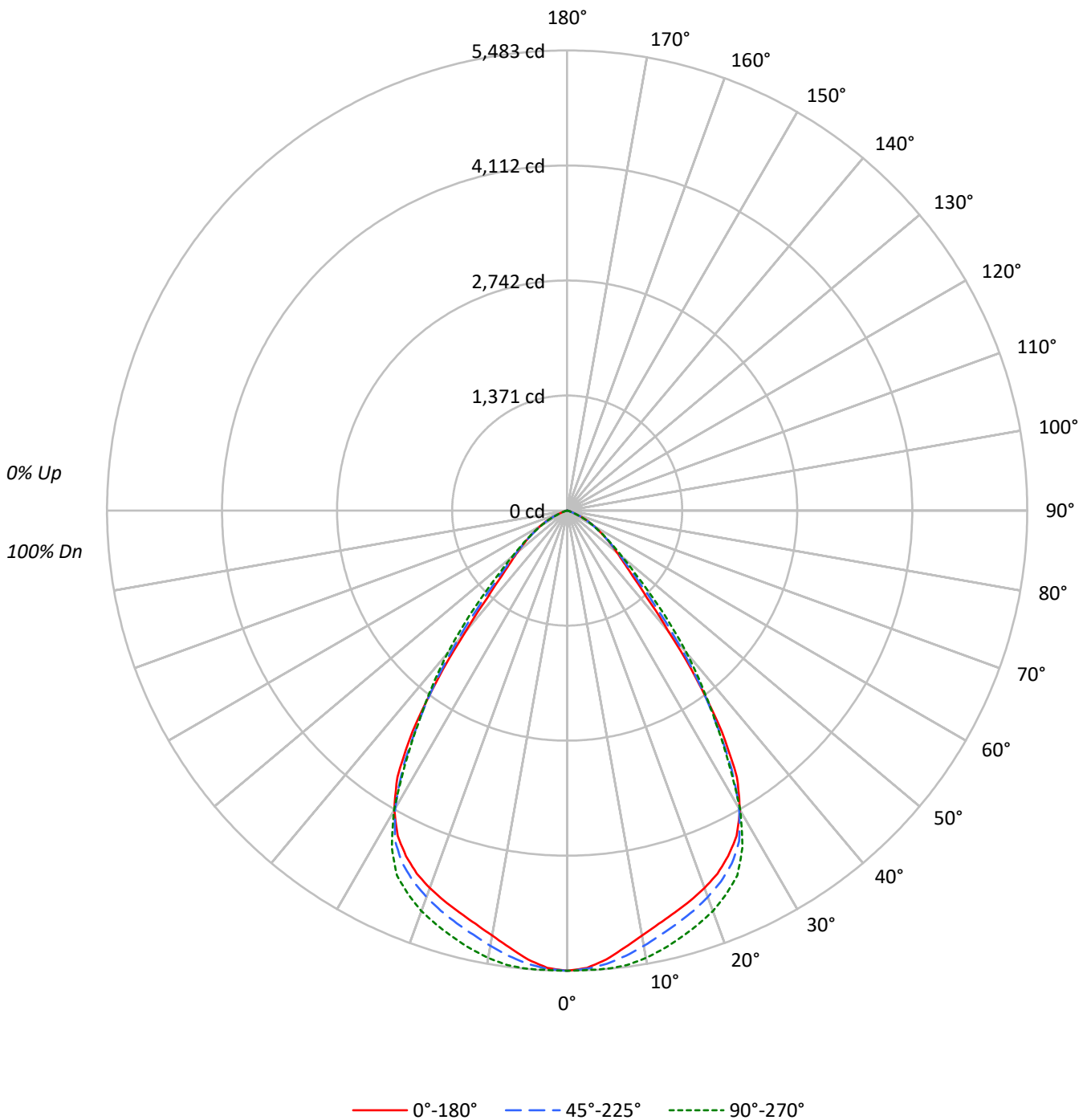
Input Watts (W): 74.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	169072	169072	169072
5°	166174	167771	169628
10°	160984	164892	169476
15°	158264	162455	167997
20°	157015	160802	166620
25°	154531	157947	163248
30°	146621	146020	146956
35°	120857	116584	116302
40°	75722	82480	89315
45°	47992	53351	60063
50°	36953	38393	41093
55°	29257	29155	30214
60°	22800	22332	22221
65°	15337	14717	14308
70°	7023	6428	6095
75°	3348	3014	2800
80°	1669	1492	1492
85°	991	991	672



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	512.7	6.6
10°-20°	1439.8	18.6
20°-30°	2120.5	27.4
30°-40°	1928.7	24.9
40°-50°	998.4	12.9
50°-60°	500.2	6.5
60°-70°	203.7	2.6
70°-80°	32.5	0.4
80°-90°	3.5	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°	4073.0	52.6
0°-40°	6001.7	77.5
0°-60°	7500.3	96.9
0°-90°	7740.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7740.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5483	5483	5483	5483	5483	
5°	5368	5382	5420	5461	5480	505
15°	4958	4991	5089	5206	5262	1401
25°	4542	4573	4642	4748	4798	2079
35°	3210	3190	3097	3071	3090	1936
45°	1100	1139	1223	1318	1377	906
55°	544	542	542	553	562	494
65°	210	209	202	199	196	212
75°	28	27	25	24	24	36
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°	5482.9	5482.9	5482.9	5482.9	5482.9
2.5°	5453.8	5456.6	5464.1	5472.5	5479.1
5°	5368.4	5382.5	5420.0	5461.3	5480.0
7.5°	5252.1	5283.0	5351.5	5428.4	5462.2
10°	5141.3	5177.0	5266.1	5369.3	5412.5
12.5°	5043.8	5078.5	5175.1	5290.5	5344.0
15°	4957.5	4991.2	5088.8	5206.1	5262.4
17.5°	4875.8	4906.8	4999.7	5117.0	5174.2
20°	4784.8	4812.0	4900.2	5013.8	5077.5
22.5°	4681.6	4702.3	4784.8	4892.7	4949.0
25°	4541.8	4572.8	4642.2	4748.2	4798.0
27.5°	4371.1	4390.8	4438.6	4503.4	4524.0
30°	4117.8	4116.8	4100.9	4100.9	4127.2
32.5°	3765.9	3720.9	3644.9	3598.9	3595.2
35°	3210.5	3189.9	3097.0	3070.7	3089.5
37.5°	2533.1	2547.2	2570.7	2608.2	2642.0
40°	1881.1	1916.7	2049.0	2167.2	2218.8
42.5°	1403.6	1449.5	1584.6	1714.1	1777.0
45°	1100.5	1139.0	1223.4	1318.2	1377.3
47.5°	910.1	929.8	974.8	1038.6	1068.6
50°	770.3	779.6	800.3	833.1	856.6
52.5°	653.9	650.2	661.4	683.0	691.5
55°	544.2	542.3	542.3	552.6	562.0
57.5°	451.3	448.5	442.8	447.5	450.3
60°	369.7	366.8	362.1	361.2	360.3
62.5°	297.4	292.7	283.3	281.5	281.5
65°	210.2	209.2	201.7	198.9	196.1
67.5°	130.4	126.7	120.1	114.5	113.5
70°	77.9	76.9	71.3	67.6	67.6
72.5°	46.9	45.0	42.2	40.3	39.4
75°	28.1	27.2	25.3	23.5	23.5
77.5°	16.9	15.9	15.0	14.1	14.1
80°	9.4	9.4	8.4	8.4	8.4
82.5°	5.6	5.6	4.7	4.7	4.7
85°	2.8	2.8	2.8	1.9	1.9
87.5°	0.9	0.9	0.9	0.9	0.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)