

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: P247240

Luminaire Tested: **LSR8B100D010 EC8B100827 8LBW0WMH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247240
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: LSR8B100D010 EC8B100827 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: 10058.0 lumens
Efficiency: N/A
Efficacy: 94.6 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

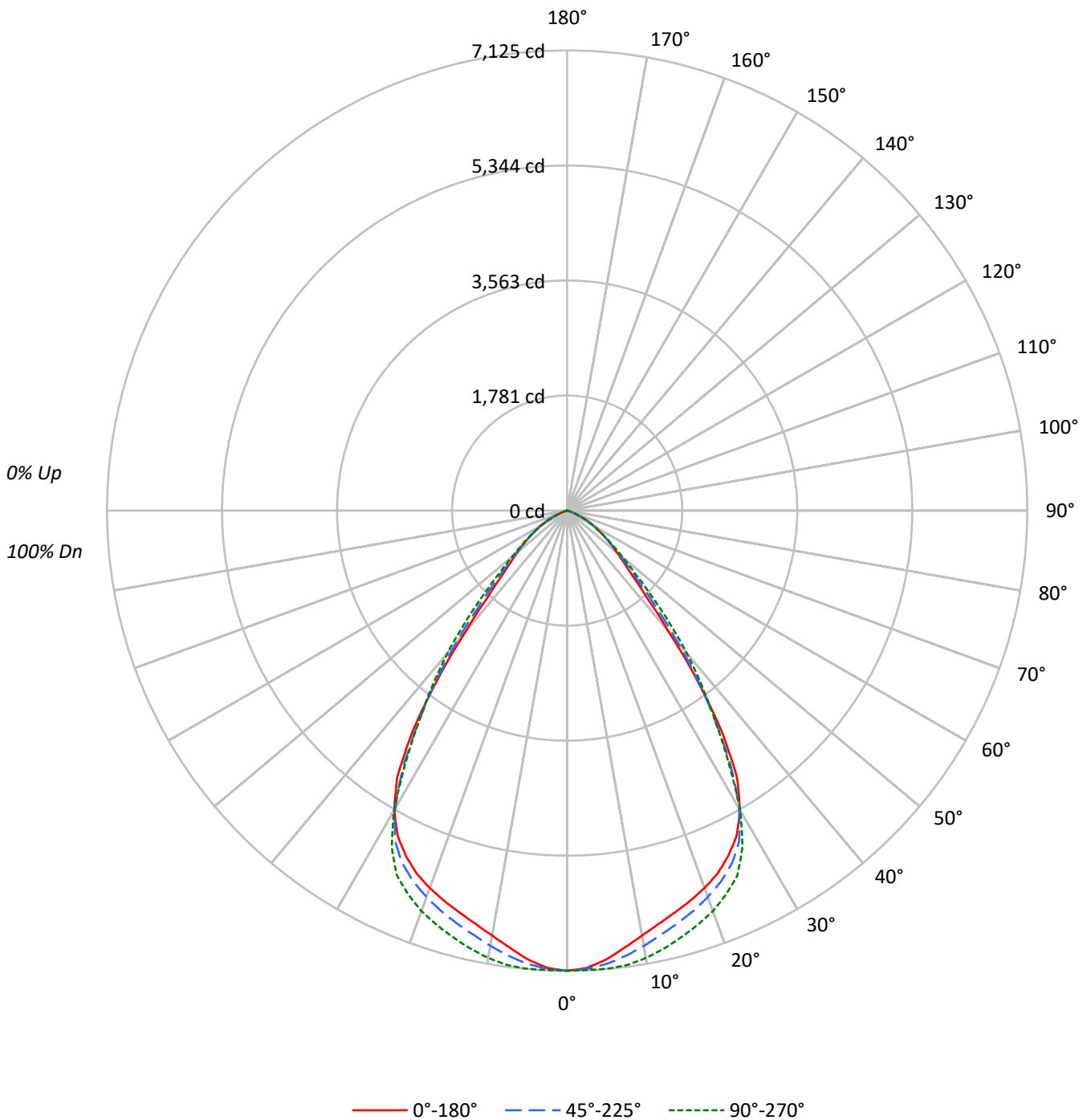
Input Watts (W): 106.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	219706	219706	219706
5°	215939	218016	220430
10°	209199	214274	220230
15°	205658	211108	218310
20°	204039	208961	216522
25°	200810	205250	212137
30°	190531	189748	190966
35°	157052	151499	151134
40°	98401	107184	116068
45°	62365	69330	78052
50°	48016	49892	53399
55°	38015	37886	39262
60°	29628	29023	28875
65°	19927	19124	18591
70°	9124	8358	7916
75°	4361	3920	3634
80°	2166	1953	1953
85°	1309	1309	849



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	666.3	6.6
10°-20°	1871.0	18.6
20°-30°	2755.6	27.4
30°-40°	2506.3	24.9
40°-50°	1297.4	12.9
50°-60°	650.0	6.5
60°-70°	264.7	2.6
70°-80°	42.2	0.4
80°-90°	4.5	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°	5292.9	52.6
0°-40°	7799.1	77.5
0°-60°	9746.5	96.9
0°-90°	10058.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10058.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7125	7125	7125	7125	7125	
5°	6976	6994	7043	7097	7121	656
15°	6442	6486	6613	6765	6838	1821
25°	5902	5942	6032	6170	6235	2702
35°	4172	4145	4024	3990	4015	2516
45°	1430	1480	1590	1713	1790	1178
55°	707	705	705	718	730	642
65°	273	272	262	258	255	275
75°	37	35	33	30	30	46
85°	4	4	4	2	2	5
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	7124.9	7124.9	7124.9	7124.9	7124.9
2.5°	7087.1	7090.7	7100.5	7111.5	7120.0
5°	6976.1	6994.4	7043.2	7096.8	7121.2
7.5°	6825.0	6865.2	6954.2	7054.2	7098.1
10°	6681.1	6727.4	6843.2	6977.4	7033.4
12.5°	6554.3	6599.4	6725.0	6874.9	6944.4
15°	6442.1	6486.0	6612.8	6765.2	6838.4
17.5°	6336.1	6376.3	6497.0	6649.4	6723.8
20°	6217.8	6253.2	6367.8	6515.3	6598.2
22.5°	6083.7	6110.5	6217.8	6358.0	6431.2
25°	5902.0	5942.3	6032.5	6170.3	6234.9
27.5°	5680.1	5705.8	5767.9	5852.1	5878.9
30°	5351.0	5349.8	5329.0	5329.0	5363.2
32.5°	4893.8	4835.3	4736.5	4676.8	4671.9
35°	4172.0	4145.2	4024.5	3990.4	4014.8
37.5°	3291.8	3310.1	3340.5	3389.3	3433.2
40°	2444.5	2490.8	2662.7	2816.3	2883.4
42.5°	1823.9	1883.6	2059.2	2227.4	2309.1
45°	1430.1	1480.1	1589.8	1712.9	1789.8
47.5°	1182.6	1208.2	1266.7	1349.6	1388.6
50°	1000.9	1013.1	1040.0	1082.6	1113.1
52.5°	849.8	844.9	859.5	887.6	898.5
55°	707.1	704.7	704.7	718.1	730.3
57.5°	586.4	582.8	575.5	581.5	585.2
60°	480.4	476.7	470.6	469.4	468.2
62.5°	386.5	380.4	368.2	365.8	365.8
65°	273.1	271.9	262.1	258.5	254.8
67.5°	169.5	164.6	156.1	148.7	147.5
70°	101.2	100.0	92.7	87.8	87.8
72.5°	61.0	58.5	54.9	52.4	51.2
75°	36.6	35.4	32.9	30.5	30.5
77.5°	21.9	20.7	19.5	18.3	18.3
80°	12.2	12.2	11.0	11.0	11.0
82.5°	7.3	7.3	6.1	6.1	6.1
85°	3.7	3.7	3.7	2.4	2.4
87.5°	1.2	1.2	1.2	1.2	1.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)