

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: P247512

Luminaire Tested: **LSR8B100D010 EC8B100940 8LBW0GPH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247512
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-61)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B100D010 EC8B100940 8LBW0GPH
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
90 CRI 4000 CCT WITH GRAPHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8786.0 lumens
Efficiency: N/A
Efficacy: 82.7 lumens/watt
Spacing Criteria (0/90/45): 1.12 / 1.13 / 1.05
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

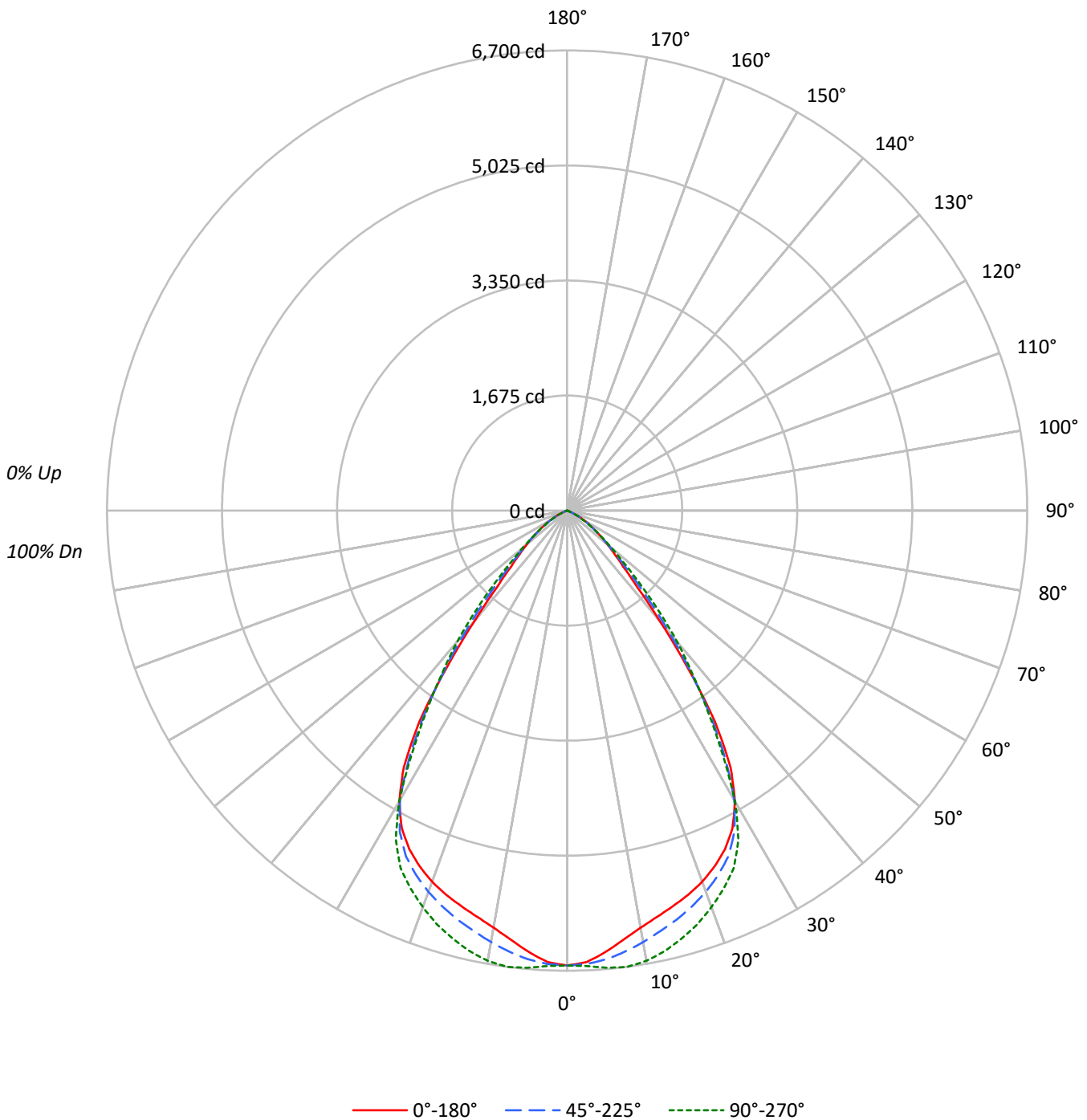
Input Watts (W): 106.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	113	110	107	104	110	107	105	103	103	101	100	100	98	97	96	95	94	92					92			
2	106	101	96	92	104	99	95	91	96	92	89	93	90	87	90	88	85	84					84			
3	100	93	87	82	98	91	86	82	88	84	80	86	82	79	84	81	78	76					76			
4	94	85	79	74	92	84	78	74	82	77	73	80	75	72	78	74	71	69					69			
5	88	79	72	67	86	78	72	67	76	70	66	74	69	66	72	68	65	63					63			
6	83	73	66	61	81	72	66	61	70	65	61	69	64	60	68	63	60	58					58			
7	78	68	61	56	77	67	61	56	66	60	56	64	59	55	63	59	55	53					53			
8	74	63	56	52	72	62	56	52	61	55	51	60	55	51	59	54	51	49					49			
9	70	59	52	48	68	58	52	48	57	52	47	56	51	47	55	51	47	46					46			
10	66	55	49	44	65	55	48	44	54	48	44	53	48	44	52	47	44	42					42			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	204244	204244	204244
5°	199617	202985	206854
10°	193010	199749	208447
15°	190280	196783	205907
20°	188678	193843	201630
25°	185037	188973	195315
30°	173946	173287	174110
35°	141335	136584	134491
40°	83905	92475	100164
45°	50220	56526	64201
50°	36589	37534	40307
55°	26504	25574	26133
60°	17990	16633	15986
65°	9033	8362	7939
70°	2506	2191	1984
75°	965	691	691
80°	408	408	213
85°	425	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	621.0	7.1
10°-20°	1744.0	19.8
20°-30°	2534.8	28.8
30°-40°	2241.6	25.5
40°-50°	1066.3	12.1
50°-60°	444.2	5.1
60°-70°	124.1	1.4
70°-80°	9.4	0.1
80°-90°	0.7	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°	4899.8	55.8
0°-40°	7141.3	81.3
0°-60°	8651.9	98.5
0°-90°	8786.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8786.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6624	6624	6624	6624	6624	
5°	6449	6481	6558	6644	6683	606
15°	5960	6015	6164	6352	6450	1683
25°	5438	5463	5554	5677	5740	2486
35°	3754	3701	3628	3573	3573	2247
45°	1152	1192	1296	1417	1472	959
55°	493	487	476	476	486	449
65°	124	122	115	110	109	135
75°	8	7	6	6	6	11
85°	1	1	0	0	0	1
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6623.5	6623.5	6623.5	6623.5	6623.5
2.5°	6579.6	6585.3	6607.3	6628.2	6637.4
5°	6448.8	6481.2	6557.6	6644.4	6682.6
7.5°	6299.5	6348.1	6476.5	6629.3	6699.9
10°	6164.1	6225.4	6379.3	6568.0	6657.1
12.5°	6057.6	6114.3	6271.7	6468.4	6569.1
15°	5960.4	6014.8	6164.1	6351.6	6449.9
17.5°	5863.1	5915.2	6043.7	6218.5	6313.4
20°	5749.7	5791.4	5907.1	6061.1	6144.4
22.5°	5608.5	5646.7	5743.9	5880.5	5955.7
25°	5438.4	5462.7	5554.1	5676.8	5740.5
27.5°	5212.7	5218.5	5274.1	5353.9	5401.4
30°	4885.2	4881.7	4866.7	4863.2	4889.8
32.5°	4426.9	4376.0	4288.0	4246.3	4213.9
35°	3754.5	3701.2	3628.3	3572.7	3572.7
37.5°	2870.2	2916.5	2945.5	2980.2	2997.5
40°	2084.4	2152.7	2297.3	2447.8	2488.3
42.5°	1515.0	1578.6	1734.9	1902.7	1951.3
45°	1151.6	1192.1	1296.2	1416.6	1472.2
47.5°	930.5	942.1	994.2	1065.9	1092.5
50°	762.7	766.2	782.4	819.4	840.2
52.5°	616.9	614.6	619.2	629.6	638.9
55°	493.0	487.2	475.7	475.7	486.1
57.5°	380.8	372.7	359.9	354.1	350.7
60°	291.7	283.6	269.7	260.4	259.2
62.5°	209.5	202.5	188.6	180.5	178.2
65°	123.8	121.5	114.6	109.9	108.8
67.5°	57.9	55.6	49.8	47.5	46.3
70°	27.8	26.6	24.3	23.1	22.0
72.5°	13.9	13.9	11.6	11.6	11.6
75°	8.1	6.9	5.8	5.8	5.8
77.5°	4.6	3.5	3.5	3.5	3.5
80°	2.3	2.3	2.3	1.2	1.2
82.5°	1.2	1.2	1.2	1.2	1.2
85°	1.2	1.2	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)