

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: P247180

Luminaire Tested: **LSR8B100D010 EC8B100950 8LBW0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247180
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-58)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B100D010 EC8B100950 8LBW0H
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
90 CRI 5000 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10107.0 lumens
Efficiency: N/A
Efficacy: 95.1 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.13 / 1.06
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

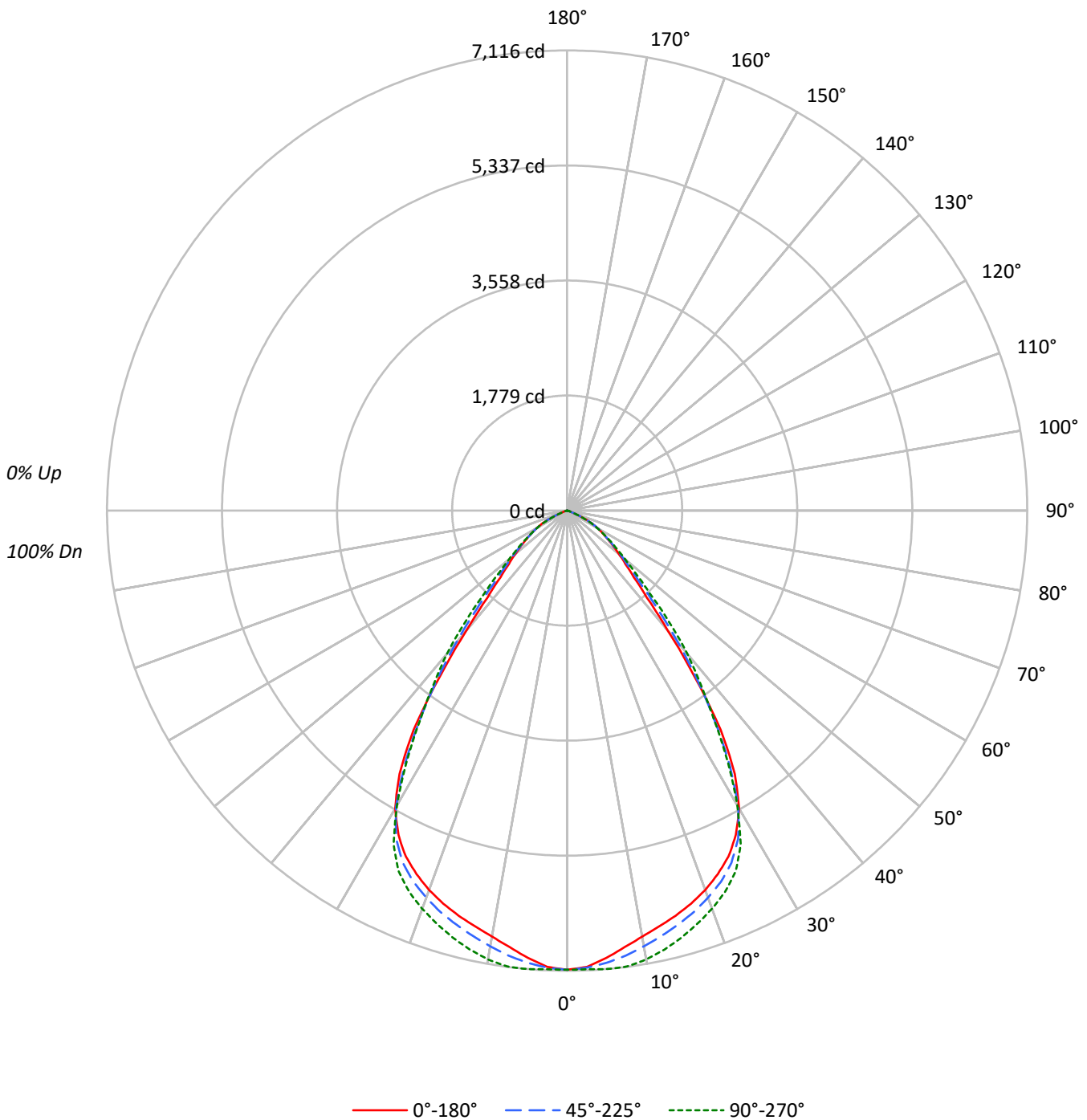
Input Watts (W): 106.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	97	96	96	94	93	91					91			
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	86	84	82					82			
3	99	91	85	81	97	90	84	80	87	82	79	85	81	77	82	79	76	74					74			
4	93	84	77	72	91	82	76	72	80	75	71	78	74	70	76	72	69	67					67			
5	87	77	70	65	85	76	69	65	74	68	64	72	67	63	71	66	63	61					61			
6	81	71	64	59	80	70	64	59	69	63	58	67	62	58	66	61	57	56					56			
7	77	66	59	54	75	65	58	54	64	58	53	62	57	53	61	56	53	51					51			
8	72	61	54	49	71	60	54	49	59	53	49	58	53	49	57	52	49	47					47			
9	68	57	50	45	67	56	50	45	55	49	45	54	49	45	53	48	45	43					43			
10	64	53	47	42	63	53	46	42	52	46	42	51	46	42	50	45	42	40					40			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	218956	218956	218956
5°	214933	217270	220276
10°	209427	214193	220684
15°	207053	211609	218188
20°	204892	209020	214999
25°	200858	204488	209626
30°	189378	188523	187373
35°	155775	150407	149553
40°	97543	107627	116358
45°	63656	70974	78653
50°	50189	52607	56056
55°	40912	41622	42907
60°	33482	33260	33112
65°	21685	21072	19934
70°	7456	6915	6374
75°	2573	2431	2288
80°	1065	852	852
85°	425	425	425



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	665.1	6.6
10°-20°	1874.1	18.5
20°-30°	2740.8	27.1
30°-40°	2483.5	24.6
40°-50°	1320.6	13.1
50°-60°	704.8	7.0
60°-70°	287.4	2.8
70°-80°	29.0	0.3
80°-90°	1.7	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°	5280.0	52.2
0°-40°	7763.5	76.8
0°-60°	9788.9	96.9
0°-90°	10107.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10107.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7101	7101	7101	7101	7101	
5°	6944	6962	7019	7083	7116	655
15°	6486	6523	6628	6765	6835	1830
25°	5903	5929	6010	6113	6161	2698
35°	4138	4081	3996	3966	3973	2487
45°	1460	1503	1628	1757	1804	1194
55°	761	760	774	785	798	690
65°	297	296	289	272	273	296
75°	22	22	20	19	19	31
85°	1	1	1	1	1	2
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	7100.6	7100.6	7100.6	7100.6	7100.6
2.5°	7062.3	7061.1	7074.3	7089.8	7098.2
5°	6943.6	6961.6	7019.1	7082.7	7116.2
7.5°	6809.4	6843.0	6942.4	7051.5	7110.2
10°	6688.4	6731.5	6840.6	6983.2	7047.9
12.5°	6584.1	6626.1	6736.3	6882.5	6953.2
15°	6485.8	6523.0	6628.5	6765.1	6834.6
17.5°	6372.0	6407.9	6509.8	6639.2	6699.2
20°	6243.8	6273.7	6369.6	6490.6	6551.8
22.5°	6084.4	6116.7	6213.8	6325.3	6382.8
25°	5903.4	5928.6	6010.1	6113.1	6161.1
27.5°	5651.7	5674.5	5722.4	5777.6	5813.5
30°	5318.6	5312.6	5294.6	5277.8	5262.3
32.5°	4827.2	4769.7	4682.2	4627.1	4629.5
35°	4138.1	4080.6	3995.5	3965.6	3972.8
37.5°	3233.3	3276.5	3311.2	3368.8	3396.3
40°	2423.2	2497.5	2673.7	2827.1	2890.6
42.5°	1821.6	1894.7	2079.3	2241.0	2328.5
45°	1459.7	1502.8	1627.5	1756.9	1803.6
47.5°	1222.4	1241.6	1313.5	1396.2	1436.9
50°	1046.2	1058.2	1096.6	1142.1	1168.5
52.5°	896.4	901.2	920.4	946.8	963.5
55°	761.0	759.8	774.2	785.0	798.1
57.5°	643.6	642.4	642.4	645.9	654.3
60°	542.9	539.3	539.3	534.5	536.9
62.5°	442.2	438.6	430.2	424.2	421.8
65°	297.2	296.0	288.8	272.0	273.2
67.5°	154.6	153.4	146.2	141.4	139.0
70°	82.7	80.3	76.7	73.1	70.7
72.5°	41.9	40.7	39.5	37.2	37.2
75°	21.6	21.6	20.4	19.2	19.2
77.5°	10.8	10.8	9.6	9.6	9.6
80°	6.0	6.0	4.8	4.8	4.8
82.5°	2.4	2.4	2.4	2.4	2.4
85°	1.2	1.2	1.2	1.2	1.2
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)