

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: P247707

Luminaire Tested: **LSR8B90D010 EC8B90950 8LBW0MW**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247707
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-63)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B90D010 EC8B90950 8LBW0MW
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
90 CRI 5000 CCT WITH MATTE WHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8990.0 lumens
Efficiency: N/A
Efficacy: 104.4 lumens/watt
Spacing Criteria (0/90/45): 1.12 / 1.09 / 1.05
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

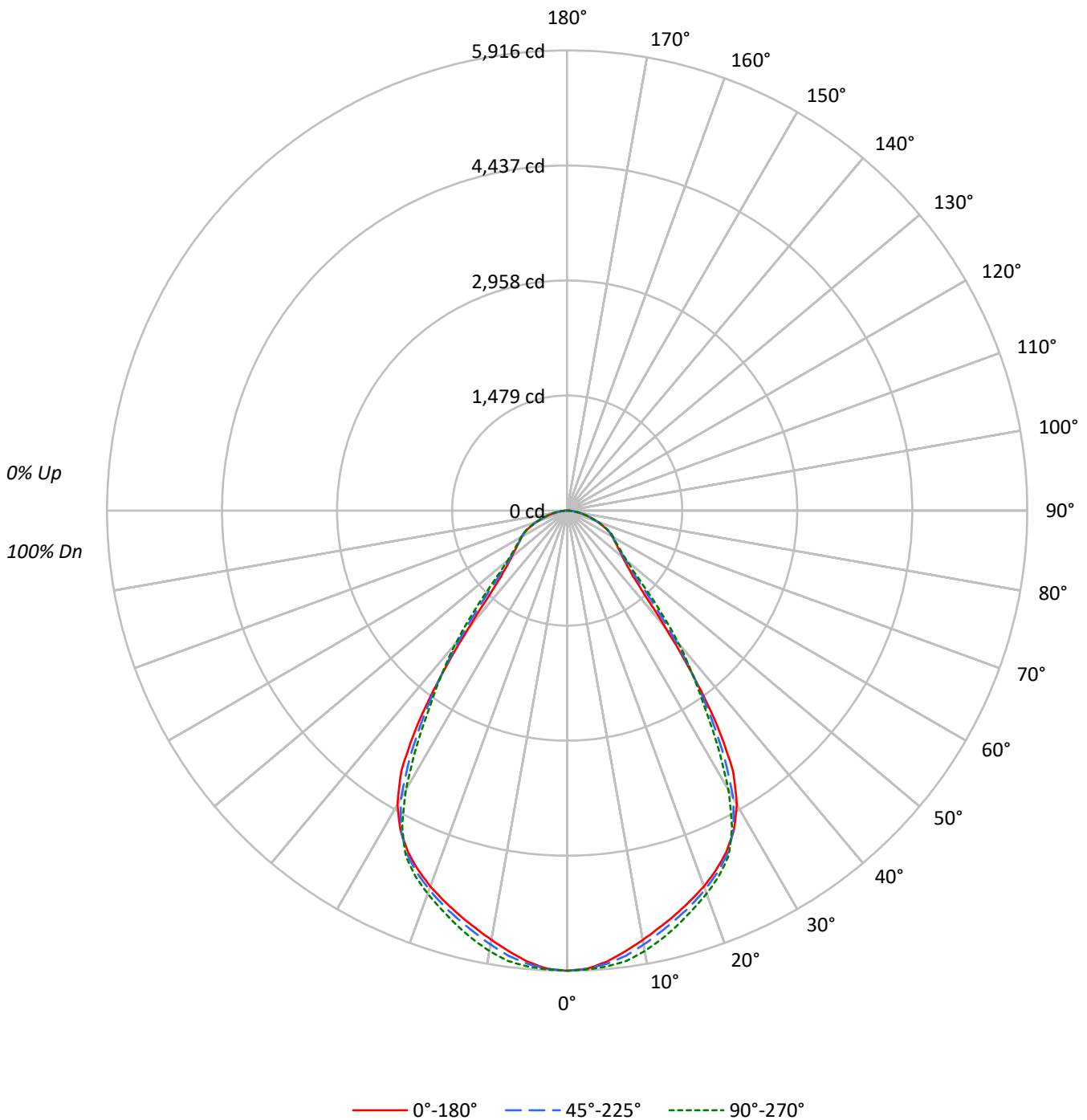
Input Watts (W): 86.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	111	107	104	101	109	105	102	99	101	99	96	97	95	93	94	92	91	89					89			
2	103	97	91	87	101	95	90	86	92	88	84	89	85	82	86	83	80	78					78			
3	96	88	81	76	94	86	80	75	84	78	74	81	77	73	79	75	72	70					70			
4	90	80	73	67	88	79	72	67	76	71	66	74	69	65	72	68	64	63					63			
5	84	73	66	60	82	72	65	60	70	64	59	68	63	59	67	62	58	57					57			
6	79	67	60	55	77	67	60	54	65	59	54	63	58	54	62	57	53	51					51			
7	74	62	55	50	72	62	55	50	60	54	49	59	53	49	58	53	49	47					47			
8	69	58	51	46	68	57	50	45	56	50	45	55	49	45	54	49	45	43					43			
9	66	54	47	42	64	53	47	42	52	46	42	51	46	42	50	45	41	40					40			
10	62	50	43	39	61	50	43	39	49	43	39	48	42	38	47	42	38	37					37			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	182431	182431	182431
5°	180199	181069	182097
10°	175488	177439	180041
15°	171656	173479	175966
20°	168710	170144	172018
25°	164748	165772	166868
30°	155327	151998	147522
35°	126093	120424	115809
40°	78853	85584	89722
45°	52540	57477	62370
50°	44792	46140	47733
55°	41880	42439	43052
60°	41506	41765	42147
65°	40466	40926	41225
70°	36704	36992	37272
75°	32049	32419	32550
80°	27294	27294	28040
85°	22042	22042	22042



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	552.8	6.1
10°-20°	1533.8	17.1
20°-30°	2217.3	24.7
30°-40°	1984.4	22.1
40°-50°	1073.9	11.9
50°-60°	715.8	8.0
60°-70°	548.1	6.1
70°-80°	290.5	3.2
80°-90°	73.5	0.8
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°	4303.9	47.9
0°-40°	6288.3	69.9
0°-60°	8077.9	89.9
0°-90°	8990.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8990.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5916	5916	5916	5916	5916	
5°	5822	5825	5850	5872	5883	549
15°	5377	5387	5434	5487	5512	1517
25°	4842	4854	4872	4895	4904	2216
35°	3350	3315	3199	3107	3076	2028
45°	1205	1240	1318	1400	1430	991
55°	779	782	789	798	801	705
65°	555	557	561	565	565	544
75°	269	269	272	273	273	289
85°	62	62	62	63	62	74
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5916.1	5916.1	5916.1	5916.1	5916.1
2.5°	5896.3	5894.2	5895.3	5901.5	5904.6
5°	5821.5	5824.7	5849.6	5872.4	5882.8
7.5°	5716.6	5730.1	5772.7	5817.4	5840.2
10°	5604.5	5618.0	5666.8	5730.1	5749.9
12.5°	5489.2	5505.8	5549.4	5613.8	5637.7
15°	5377.0	5387.4	5434.1	5487.1	5512.0
17.5°	5261.7	5272.1	5314.7	5356.2	5376.0
20°	5141.2	5152.7	5184.9	5220.2	5242.0
22.5°	5003.1	5014.5	5041.5	5072.7	5092.4
25°	4842.1	4853.5	4872.2	4895.1	4904.4
27.5°	4638.5	4645.8	4628.1	4609.5	4592.8
30°	4362.3	4339.4	4268.8	4178.4	4143.1
32.5°	3969.7	3895.9	3759.8	3649.8	3609.2
35°	3349.6	3315.3	3199.0	3106.6	3076.4
37.5°	2626.7	2649.6	2641.2	2635.0	2641.2
40°	1958.9	2011.8	2126.1	2204.0	2228.9
42.5°	1483.2	1534.1	1662.9	1770.9	1808.3
45°	1204.8	1240.1	1318.0	1400.1	1430.2
47.5°	1039.7	1059.4	1098.9	1142.5	1157.0
50°	933.7	942.0	961.8	986.7	995.0
52.5°	849.6	853.8	865.2	878.7	880.8
55°	779.0	782.1	789.4	797.7	800.8
57.5°	719.8	722.9	725.0	730.2	732.2
60°	673.0	673.0	677.2	681.3	683.4
62.5°	622.1	622.1	626.3	630.4	630.4
65°	554.6	556.7	560.9	565.0	565.0
67.5°	480.9	481.9	485.0	489.2	488.2
70°	407.1	407.1	410.3	412.3	413.4
72.5°	336.5	335.5	340.7	341.7	338.6
75°	269.0	269.0	272.1	273.2	273.2
77.5°	209.8	208.8	208.8	209.8	210.8
80°	153.7	154.8	153.7	155.8	157.9
82.5°	107.0	105.9	105.9	105.9	104.9
85°	62.3	62.3	62.3	63.4	62.3
87.5°	24.9	24.9	23.9	23.9	22.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)