

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: P247687

Luminaire Tested: **LSR8B90D010 EC8B90850 8LBW0MW**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247687
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 EC8B90850 8LBW0MW
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 5000 CCT WITH MATTE WHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9875.0 lumens
Efficiency: N/A
Efficacy: 114.7 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

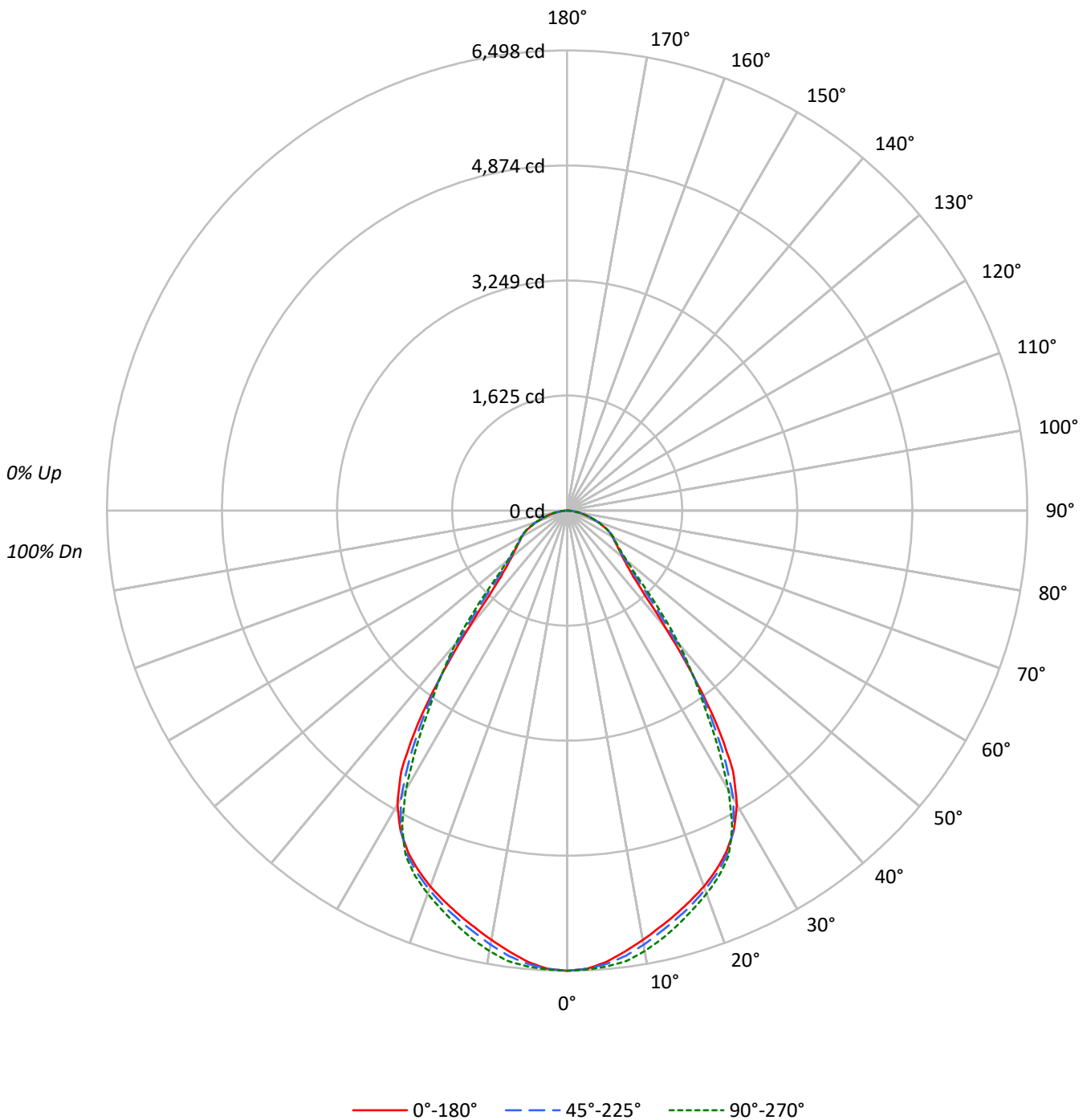
Input Watts (W): 86.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	200387	200387	200387
5°	197939	198893	200022
10°	192763	194905	197764
15°	188553	190558	193288
20°	185318	186893	188951
25°	180967	182094	183295
30°	170617	166960	162046
35°	138504	132278	127211
40°	86614	94009	98554
45°	57712	63137	68510
50°	49201	50683	52434
55°	46004	46617	47289
60°	45595	45878	46298
65°	44450	44954	45282
70°	40319	40626	40941
75°	35207	35612	35755
80°	29993	29993	30792
85°	24236	24236	24236



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	607.2	6.1
10°-20°	1684.8	17.1
20°-30°	2435.6	24.7
30°-40°	2179.7	22.1
40°-50°	1179.6	11.9
50°-60°	786.2	8.0
60°-70°	602.1	6.1
70°-80°	319.1	3.2
80°-90°	80.7	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°	4727.6	47.9
0°-40°	6907.3	69.9
0°-60°	8873.1	89.9
0°-90°	9875.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9875.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6498	6498	6498	6498	6498	
5°	6395	6398	6425	6450	6462	603
15°	5906	5918	5969	6027	6055	1666
25°	5319	5331	5352	5377	5387	2434
35°	3679	3642	3514	3412	3379	2227
45°	1323	1362	1448	1538	1571	1089
55°	856	859	867	876	880	774
65°	609	612	616	621	621	597
75°	296	296	299	300	300	317
85°	68	68	68	70	68	81
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6498.4	6498.4	6498.4	6498.4	6498.4
2.5°	6476.8	6474.5	6475.6	6482.5	6485.9
5°	6394.6	6398.0	6425.4	6450.5	6461.9
7.5°	6279.4	6294.2	6341.0	6390.1	6415.2
10°	6156.2	6171.0	6224.6	6294.2	6315.9
12.5°	6029.5	6047.8	6095.7	6166.4	6192.7
15°	5906.3	5917.7	5969.1	6027.3	6054.6
17.5°	5779.7	5791.1	5837.9	5883.5	5905.2
20°	5647.3	5659.9	5695.3	5734.1	5758.0
22.5°	5495.6	5508.2	5537.8	5572.1	5593.7
25°	5318.8	5331.3	5351.9	5377.0	5387.2
27.5°	5095.2	5103.1	5083.8	5063.2	5045.0
30°	4791.7	4766.6	4689.0	4589.8	4551.0
32.5°	4360.4	4279.4	4130.0	4009.0	3964.6
35°	3679.3	3641.7	3513.9	3412.4	3379.3
37.5°	2885.3	2910.4	2901.3	2894.4	2901.3
40°	2151.7	2209.9	2335.4	2420.9	2448.3
42.5°	1629.2	1685.1	1826.5	1945.2	1986.3
45°	1323.4	1362.2	1447.8	1537.9	1571.0
47.5°	1142.0	1163.7	1207.0	1255.0	1270.9
50°	1025.6	1034.8	1056.5	1083.8	1093.0
52.5°	933.2	937.8	950.4	965.2	967.5
55°	855.7	859.1	867.1	876.2	879.6
57.5°	790.6	794.1	796.3	802.0	804.3
60°	739.3	739.3	743.9	748.4	750.7
62.5°	683.4	683.4	687.9	692.5	692.5
65°	609.2	611.5	616.1	620.6	620.6
67.5°	528.2	529.4	532.8	537.4	536.2
70°	447.2	447.2	450.6	452.9	454.1
72.5°	369.6	368.5	374.2	375.3	371.9
75°	295.5	295.5	298.9	300.1	300.1
77.5°	230.5	229.3	229.3	230.5	231.6
80°	168.9	170.0	168.9	171.1	173.4
82.5°	117.5	116.4	116.4	116.4	115.2
85°	68.5	68.5	68.5	69.6	68.5
87.5°	27.4	27.4	26.2	26.2	25.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)