

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: P247937

Luminaire Tested: **LSR8B150D010 EC8B150950 8LBW0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247937
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-70)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B150D010 EC8B150950 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: 15002.0 lumens
Efficiency: N/A
Efficacy: 94.6 lumens/watt
Spacing Criteria (0/90/45): 1.12 / 1.12 / 1.06
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

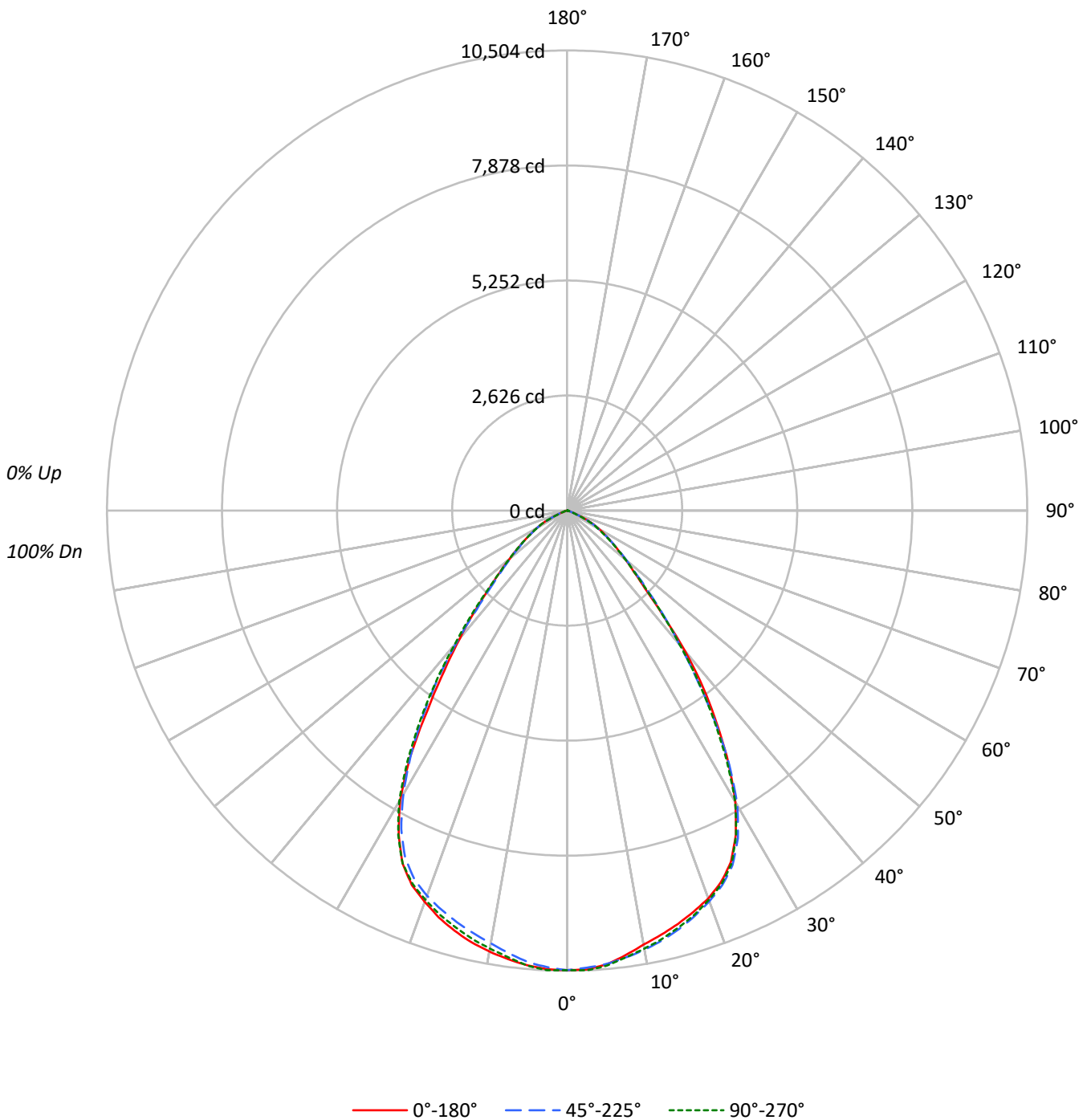
Input Watts (W): 158.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	105	100	95	91	103	98	93	90	94	91	88	91	88	86	89	86	84	82					82			
3	99	91	85	80	97	90	84	80	87	82	78	84	80	77	82	79	76	74					74			
4	92	83	77	72	90	82	76	71	80	75	70	78	73	70	76	72	69	67					67			
5	87	77	70	65	85	76	69	64	74	68	64	72	67	63	70	66	62	61					61			
6	81	71	64	59	80	70	63	58	68	62	58	67	61	57	65	61	57	55					55			
7	76	65	58	53	75	65	58	53	63	57	53	62	57	53	61	56	52	51					51			
8	72	61	54	49	71	60	54	49	59	53	49	58	52	48	57	52	48	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	46	42	63	52	46	42	52	46	42	51	45	41	50	45	41	40					40			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	323491	323491	323491
5°	321817	322731	322560
10°	314939	317858	320081
15°	311854	314357	316974
20°	309179	310302	311844
25°	301056	302216	302468
30°	273257	272993	271156
35°	224984	219951	208948
40°	168233	160662	153384
45°	108944	111796	109263
50°	83391	82950	82595
55°	65342	64154	63605
60°	51984	49141	49819
65°	34111	30142	30477
70°	12226	11225	11640
75°	4396	5385	4396
80°	2788	3925	3267
85°	637	1946	1309



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	982.6	6.5
10°-20°	2770.2	18.5
20°-30°	4016.3	26.8
30°-40°	3610.1	24.1
40°-50°	2034.3	13.6
50°-60°	1083.9	7.2
60°-70°	433.2	2.9
70°-80°	57.7	0.4
80°-90°	13.6	0.1
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°	7769.1	51.8
0°-40°	11379.2	75.9
0°-60°	14497.5	96.6
0°-90°	15002.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15002.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	10491	10491	10491	10491	10491	
5°	10397	10387	10426	10344	10421	981
15°	9769	9882	9847	9725	9929	2756
25°	8848	8931	8882	8745	8890	4016
35°	5977	5891	5843	5762	5551	3708
45°	2498	2634	2564	2443	2506	2052
55°	1215	1219	1193	1166	1183	1108
65°	468	445	413	401	418	463
75°	37	47	45	44	37	55
85°	2	11	6	16	4	5
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	10490.6	10490.6	10490.6	10490.6	10490.6	10490.6	10490.6	10490.6	10490.6
2.5°	10483.3	10461.1	10444.5	10475.9	10503.6	10427.9	10433.5	10466.7	10477.7
5°	10396.6	10376.3	10387.4	10413.2	10426.1	10331.1	10344.0	10400.3	10420.6
7.5°	10234.3	10250.0	10289.6	10322.8	10284.1	10172.5	10190.9	10287.8	10327.4
10°	10058.1	10095.0	10178.0	10216.8	10151.3	10008.3	10029.6	10159.6	10222.3
12.5°	9918.0	9958.6	10045.2	10074.7	10016.6	9862.6	9884.8	10019.4	10094.1
15°	9768.6	9805.5	9882.0	9906.0	9847.0	9705.0	9725.2	9854.3	9929.0
17.5°	9599.8	9632.1	9700.3	9722.5	9670.8	9520.5	9552.8	9672.7	9738.2
20°	9421.8	9444.9	9492.9	9505.8	9456.0	9342.5	9357.3	9460.6	9503.0
22.5°	9179.3	9208.8	9253.1	9266.9	9220.8	9096.3	9110.2	9211.6	9257.7
25°	8848.3	8891.6	8931.2	8948.8	8882.4	8717.3	8745.0	8831.7	8889.8
27.5°	8334.6	8369.6	8439.7	8441.6	8350.3	8178.8	8201.8	8313.4	8328.1
30°	7674.3	7706.6	7768.4	7754.6	7666.9	7463.1	7481.6	7590.4	7615.3
32.5°	6865.6	6877.6	6894.2	6889.6	6782.6	6686.7	6648.9	6661.8	6671.0
35°	5976.6	5997.8	5890.8	5832.7	5842.9	5851.2	5761.7	5628.9	5550.6
37.5°	5115.3	5013.9	4882.0	4836.8	4920.7	4948.4	4867.2	4669.0	4596.1
40°	4179.3	4088.9	3984.7	3993.0	3991.2	4010.5	3908.2	3835.3	3810.4
42.5°	3216.5	3217.5	3285.7	3238.7	3229.5	3094.8	3055.2	3095.7	3140.0
45°	2498.2	2581.2	2633.7	2619.9	2563.6	2442.8	2442.8	2513.8	2505.5
47.5°	2056.4	2086.0	2125.6	2122.8	2082.3	1993.7	2008.5	2057.4	2082.3
50°	1738.3	1751.2	1769.7	1754.0	1729.1	1673.7	1672.8	1706.9	1721.7
52.5°	1454.3	1461.6	1457.0	1448.7	1434.9	1405.4	1396.2	1424.8	1428.4
55°	1215.4	1229.3	1219.1	1196.1	1193.3	1166.5	1165.6	1188.7	1183.1
57.5°	1012.5	998.7	984.9	965.5	962.7	954.4	963.7	967.4	961.8
60°	842.9	843.8	817.0	798.6	796.8	784.8	797.7	807.8	807.8
62.5°	678.7	675.0	658.4	630.8	635.4	630.8	636.3	638.1	629.8
65°	467.5	468.5	445.4	412.2	413.1	409.4	401.1	414.1	417.7
67.5°	249.0	247.1	229.6	217.6	213.0	214.9	224.1	226.9	216.7
70°	135.6	130.9	134.6	121.7	124.5	119.9	124.5	131.9	129.1
72.5°	69.2	73.8	66.4	60.9	68.2	67.3	78.4	71.9	64.6
75°	36.9	39.7	47.0	43.3	45.2	43.3	44.3	41.5	36.9
77.5°	26.7	29.5	34.1	33.2	32.3	30.4	34.1	37.8	30.4
80°	15.7	19.4	21.2	24.9	22.1	24.9	28.6	23.1	18.4
82.5°	10.1	15.7	15.7	16.6	24.0	15.7	25.8	23.1	18.4
85°	1.8	2.8	11.1	6.5	5.5	16.6	15.7	12.0	3.7
87.5°	0.0	6.5	14.8	7.4	12.0	11.1	15.7	16.6	3.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)