

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: P247919

Luminaire Tested: **LSR8B150D010 EC8B150840 8LBW0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247919
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 EC8B150840 8LBW0H
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 4000 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16162.0 lumens
Efficiency: N/A
Efficacy: 102.0 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

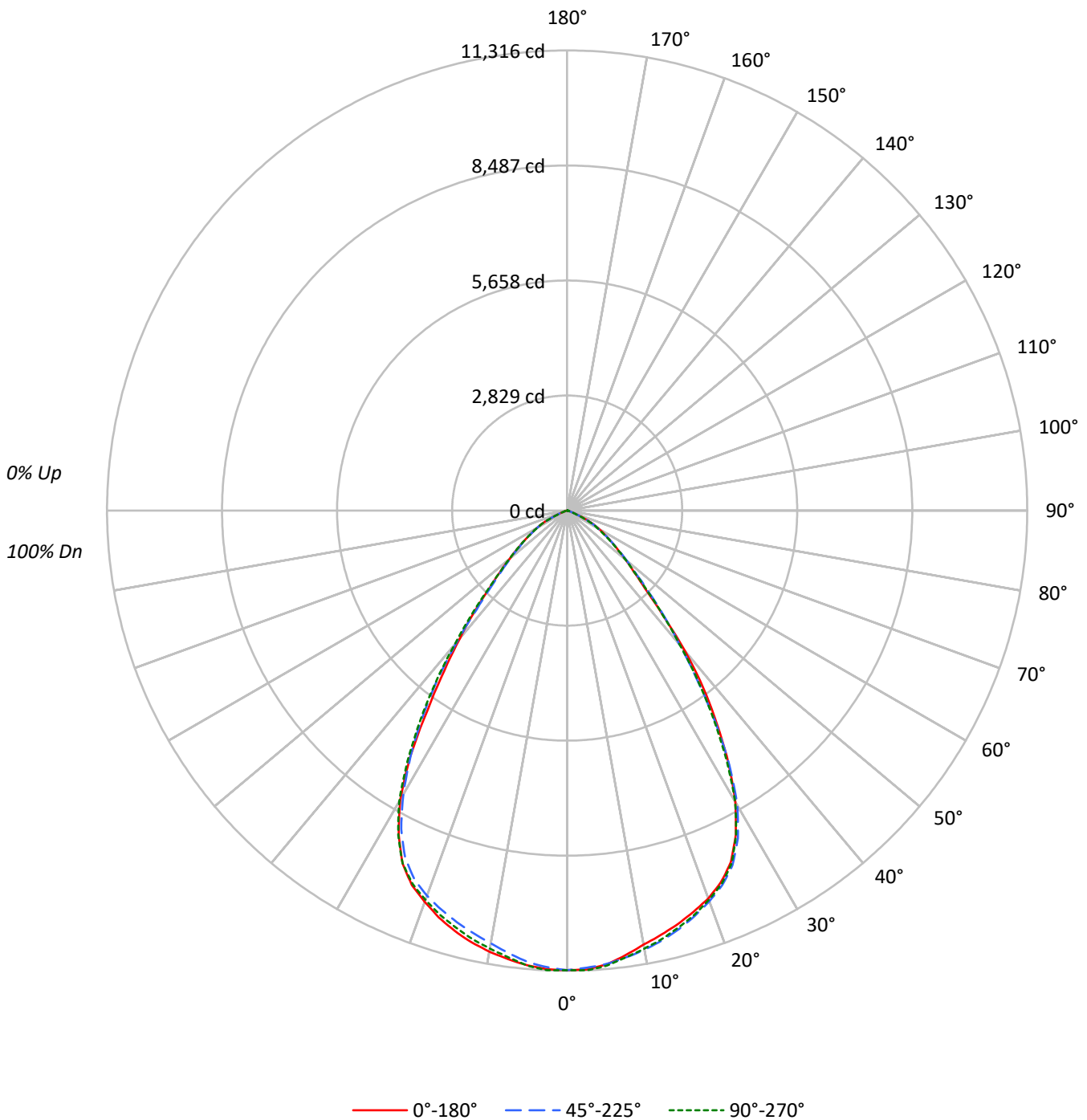
Input Watts (W): 158.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	348506	348506	348506
5°	346701	347686	347500
10°	339294	342434	344830
15°	335966	338664	341486
20°	333089	334293	335957
25°	324331	325583	325852
30°	294386	294104	292121
35°	242380	236959	225101
40°	181239	173084	165246
45°	117365	120444	117714
50°	89839	89364	88980
55°	70395	69116	68524
60°	55999	52940	53674
65°	36752	32477	32834
70°	13163	12090	12541
75°	4730	5802	4730
80°	3001	4226	3534
85°	708	2123	1415



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1058.6	6.5
10°-20°	2984.4	18.5
20°-30°	4326.9	26.8
30°-40°	3889.3	24.1
40°-50°	2191.7	13.6
50°-60°	1167.7	7.2
60°-70°	466.7	2.9
70°-80°	62.1	0.4
80°-90°	14.7	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°	8369.8	51.8
0°-40°	12259.1	75.9
0°-60°	15618.5	96.6
0°-90°	16162.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	16162.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	11302	11302	11302	11302	11302	
5°	11200	11190	11232	11144	11226	###
15°	10524	10646	10608	10477	10697	2970
25°	9532	9622	9569	9421	9577	4327
35°	6439	6346	6295	6207	5980	3995
45°	2691	2837	2762	2632	2699	2211
55°	1309	1313	1286	1256	1275	1193
65°	504	480	445	432	450	499
75°	40	51	49	48	40	59
85°	2	12	6	17	4	6
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°	11301.8	11301.8	11301.8	11301.8	11301.8	11301.8	11301.8	11301.8	11301.8
2.5°	11293.9	11270.0	11252.1	11285.9	11315.7	11234.3	11240.2	11276.0	11287.9
5°	11200.5	11178.6	11190.5	11218.4	11232.3	11129.9	11143.8	11204.5	11226.3
7.5°	11025.6	11042.5	11085.2	11121.0	11079.3	10959.1	10978.9	11083.2	11126.0
10°	10835.9	10875.6	10965.0	11006.7	10936.2	10782.2	10805.1	10945.2	11012.7
12.5°	10684.9	10728.6	10822.0	10853.8	10791.2	10625.3	10649.1	10794.1	10874.6
15°	10523.9	10563.7	10646.1	10671.9	10608.4	10455.4	10477.2	10616.3	10696.8
17.5°	10342.1	10376.9	10450.4	10474.2	10418.6	10256.7	10291.4	10420.6	10491.1
20°	10150.4	10175.2	10226.9	10240.8	10187.1	10064.9	10080.8	10192.1	10237.8
22.5°	9889.1	9920.9	9968.6	9983.5	9933.8	9799.7	9814.6	9923.9	9973.5
25°	9532.4	9579.1	9621.8	9640.7	9569.2	9391.4	9421.2	9514.5	9577.1
27.5°	8979.1	9016.8	9092.3	9094.3	8995.9	8811.2	8836.0	8956.2	8972.1
30°	8267.7	8302.5	8369.1	8354.2	8259.8	8040.2	8060.1	8177.3	8204.1
32.5°	7396.4	7409.4	7427.2	7422.3	7307.0	7203.7	7163.0	7176.9	7186.8
35°	6438.7	6461.6	6346.3	6283.8	6294.7	6303.6	6207.3	6064.2	5979.7
37.5°	5510.8	5401.5	5259.5	5210.8	5301.2	5331.0	5243.6	5030.0	4951.5
40°	4502.4	4405.1	4292.8	4301.8	4299.8	4320.6	4210.4	4131.9	4105.1
42.5°	3465.3	3466.2	3539.8	3489.1	3479.2	3334.1	3291.4	3335.1	3382.8
45°	2691.3	2780.7	2837.4	2822.5	2761.9	2631.7	2631.7	2708.2	2699.3
47.5°	2215.5	2247.2	2290.0	2287.0	2243.3	2147.9	2163.8	2216.5	2243.3
50°	1872.7	1886.6	1906.5	1889.6	1862.8	1803.2	1802.2	1838.9	1854.8
52.5°	1566.7	1574.7	1569.7	1560.8	1545.9	1514.1	1504.1	1534.9	1538.9
55°	1309.4	1324.3	1313.4	1288.5	1285.6	1256.8	1255.8	1280.6	1274.6
57.5°	1090.8	1075.9	1061.0	1040.2	1037.2	1028.3	1038.2	1042.2	1036.2
60°	908.0	909.0	880.2	860.4	858.4	845.5	859.4	870.3	870.3
62.5°	731.2	727.2	709.3	679.5	684.5	679.5	685.5	687.5	678.5
65°	503.7	504.7	479.9	444.1	445.1	441.1	432.2	446.1	450.0
67.5°	268.2	266.3	247.4	234.5	229.5	231.5	241.4	244.4	233.5
70°	146.0	141.1	145.0	131.1	134.1	129.2	134.1	142.1	139.1
72.5°	74.5	79.5	71.5	65.6	73.5	72.5	84.4	77.5	69.5
75°	39.7	42.7	50.7	46.7	48.7	46.7	47.7	44.7	39.7
77.5°	28.8	31.8	36.8	35.8	34.8	32.8	36.8	40.7	32.8
80°	16.9	20.9	22.9	26.8	23.8	26.8	30.8	24.8	19.9
82.5°	10.9	16.9	16.9	17.9	25.8	16.9	27.8	24.8	19.9
85°	2.0	3.0	11.9	7.0	6.0	17.9	16.9	12.9	4.0
87.5°	0.0	7.0	15.9	7.9	12.9	11.9	16.9	17.9	4.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)