

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: P247916

Luminaire Tested: **LSR8B150D010 EC8B150835 8LBW0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247916
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 EC8B150835 8LBW0H
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 3500 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16268.0 lumens
Efficiency: N/A
Efficacy: 102.6 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

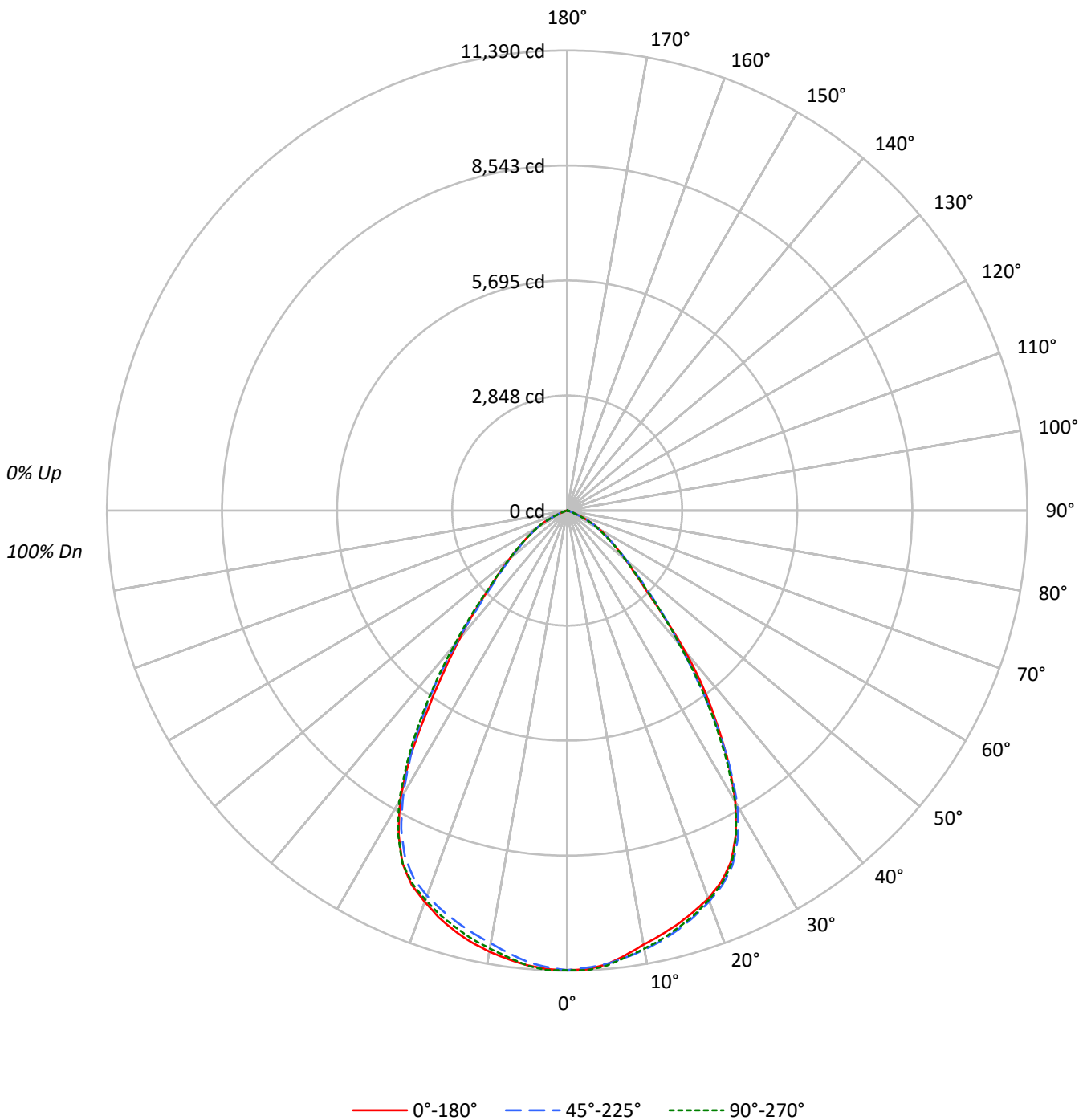
Input Watts (W): 158.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	350791	350791	350791
5°	348973	349964	349778
10°	341517	344680	347091
15°	338169	340882	343724
20°	335271	336485	338159
25°	326458	327717	327989
30°	296319	296034	294040
35°	243972	238514	226580
40°	182431	174219	166329
45°	118137	121233	118486
50°	90429	89949	89565
55°	70858	69567	68976
60°	56369	53285	54025
65°	36993	32688	33053
70°	13253	12172	12622
75°	4766	5838	4766
80°	3019	4262	3552
85°	708	2123	1415



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1065.5	6.5
10°-20°	3004.0	18.5
20°-30°	4355.2	26.8
30°-40°	3914.8	24.1
40°-50°	2206.0	13.6
50°-60°	1175.4	7.2
60°-70°	469.8	2.9
70°-80°	62.5	0.4
80°-90°	14.8	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°	8424.7	51.8
0°-40°	12339.5	75.9
0°-60°	15720.9	96.6
0°-90°	16268.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	16268.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	11376	11376	11376	11376	11376	
5°	11274	11264	11306	11217	11300	###
15°	10593	10716	10678	10546	10767	2989
25°	9595	9685	9632	9483	9640	4355
35°	6481	6388	6336	6248	6019	4021
45°	2709	2856	2780	2649	2717	2225
55°	1318	1322	1294	1264	1283	1201
65°	507	483	448	435	453	502
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°	11375.9	11375.9	11375.9	11375.9	11375.9	11375.9	11375.9	11375.9	11375.9
2.5°	11367.9	11343.9	11325.9	11359.9	11389.9	11307.9	11313.9	11349.9	11361.9
5°	11273.9	11251.9	11263.9	11291.9	11305.9	11202.9	11216.9	11277.9	11299.9
7.5°	11097.9	11114.9	11157.9	11193.9	11151.9	11030.9	11050.9	11155.9	11198.9
10°	10906.9	10946.9	11036.9	11078.9	11007.9	10852.9	10875.9	11016.9	11084.9
12.5°	10754.9	10798.9	10892.9	10924.9	10861.9	10694.9	10718.9	10864.9	10945.9
15°	10592.9	10632.9	10715.9	10741.9	10677.9	10523.9	10545.9	10685.9	10766.9
17.5°	10409.9	10444.9	10518.9	10542.9	10486.9	10323.9	10358.9	10488.9	10559.9
20°	10216.9	10241.9	10293.9	10307.9	10253.9	10130.9	10146.9	10258.9	10304.9
22.5°	9953.9	9985.9	10033.9	10048.9	9998.9	9863.9	9878.9	9988.9	10038.9
25°	9594.9	9641.9	9684.9	9703.9	9631.9	9452.9	9482.9	9576.9	9639.9
27.5°	9038.0	9075.9	9151.9	9153.9	9054.9	8869.0	8894.0	9015.0	9031.0
30°	8322.0	8357.0	8424.0	8409.0	8314.0	8093.0	8113.0	8231.0	8258.0
32.5°	7445.0	7458.0	7476.0	7471.0	7355.0	7251.0	7210.0	7224.0	7234.0
35°	6481.0	6504.0	6388.0	6325.0	6336.0	6345.0	6248.0	6104.0	6019.0
37.5°	5547.0	5437.0	5294.0	5245.0	5336.0	5366.0	5278.0	5063.0	4984.0
40°	4532.0	4434.0	4321.0	4330.0	4328.0	4349.0	4238.0	4159.0	4132.0
42.5°	3488.0	3489.0	3563.0	3512.0	3502.0	3356.0	3313.0	3357.0	3405.0
45°	2709.0	2799.0	2856.0	2841.0	2780.0	2649.0	2649.0	2726.0	2717.0
47.5°	2230.0	2262.0	2305.0	2302.0	2258.0	2162.0	2178.0	2231.0	2258.0
50°	1885.0	1899.0	1919.0	1902.0	1875.0	1815.0	1814.0	1851.0	1867.0
52.5°	1577.0	1585.0	1580.0	1571.0	1556.0	1524.0	1514.0	1545.0	1549.0
55°	1318.0	1333.0	1322.0	1297.0	1294.0	1265.0	1264.0	1289.0	1283.0
57.5°	1098.0	1083.0	1068.0	1047.0	1044.0	1035.0	1045.0	1049.0	1043.0
60°	914.0	915.0	886.0	866.0	864.0	851.0	865.0	876.0	876.0
62.5°	736.0	732.0	714.0	684.0	689.0	684.0	690.0	692.0	683.0
65°	507.0	508.0	483.0	447.0	448.0	444.0	435.0	449.0	453.0
67.5°	270.0	268.0	249.0	236.0	231.0	233.0	243.0	246.0	235.0
70°	147.0	142.0	146.0	132.0	135.0	130.0	135.0	143.0	140.0
72.5°	75.0	80.0	72.0	66.0	74.0	73.0	85.0	78.0	70.0
75°	40.0	43.0	51.0	47.0	49.0	47.0	48.0	45.0	40.0
77.5°	29.0	32.0	37.0	36.0	35.0	33.0	37.0	41.0	33.0
80°	17.0	21.0	23.0	27.0	24.0	27.0	31.0	25.0	20.0
82.5°	11.0	17.0	17.0	18.0	26.0	17.0	28.0	25.0	20.0
85°	2.0	3.0	12.0	7.0	6.0	18.0	17.0	13.0	4.0
87.5°	0.0	7.0	16.0	8.0	13.0	12.0	17.0	18.0	4.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)