

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: P248099

Luminaire Tested: **LSR8B150D010 EC8B150840 8LBW0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248099
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-72)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B150D010 EC8B150840 8LBW0WH
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 4000 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16580.0 lumens
Efficiency: N/A
Efficacy: 104.6 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.14 / 1.07
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

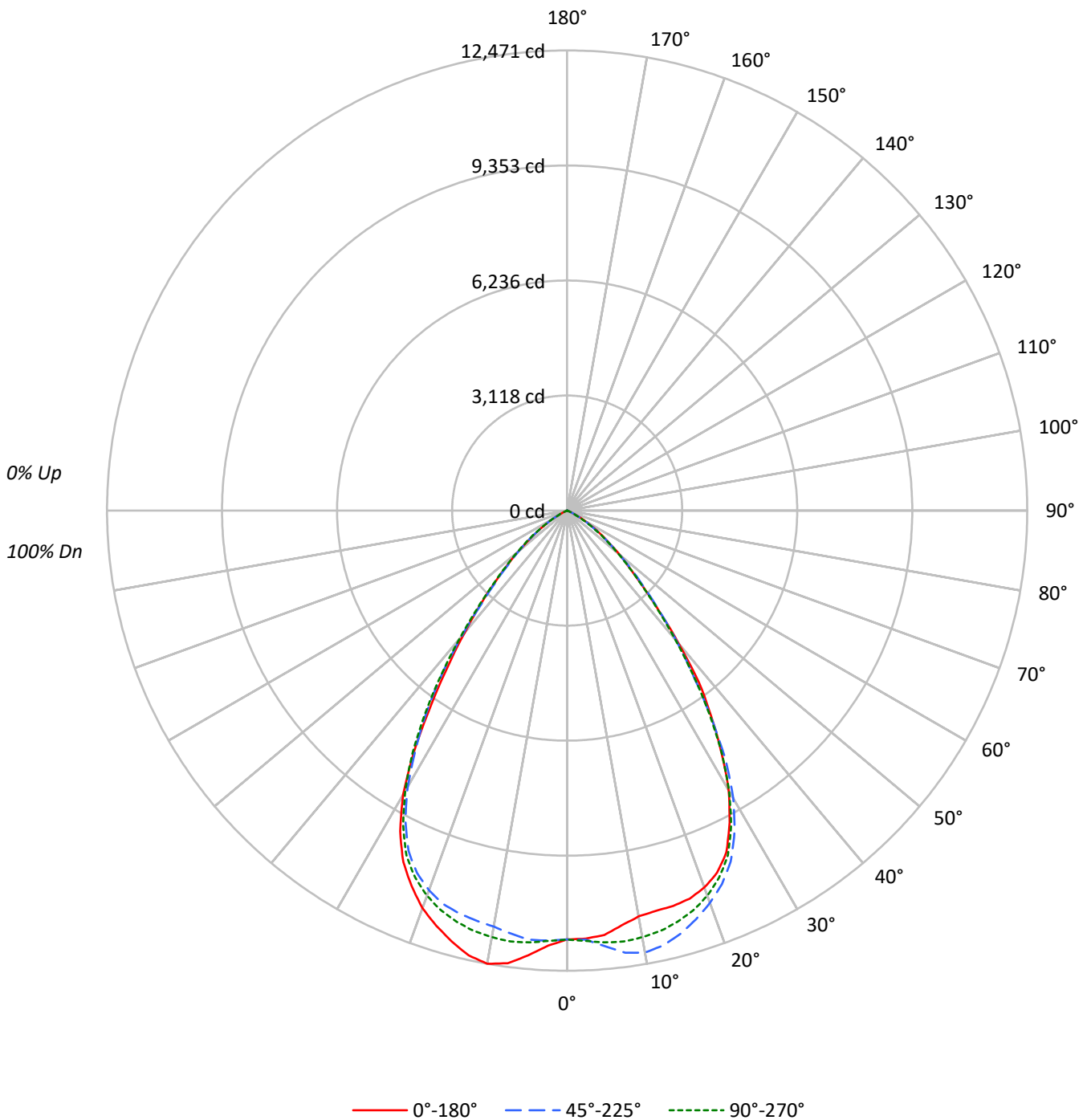
Input Watts (W): 158.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	113	110	107	104	110	107	105	103	103	101	100	100	98	97	96	95	94	92					92			
2	106	101	96	92	104	99	95	91	96	92	89	93	90	87	90	87	85	84					84			
3	100	92	87	82	98	91	86	81	88	84	80	86	82	79	83	80	78	76					76			
4	94	85	79	74	92	84	78	73	82	76	72	79	75	72	78	74	71	69					69			
5	88	78	72	67	86	77	71	66	76	70	66	74	69	65	72	68	65	63					63			
6	83	72	66	61	81	72	65	61	70	64	60	69	64	60	67	63	59	58					58			
7	78	67	60	56	76	67	60	55	65	59	55	64	59	55	63	58	54	53					53			
8	73	63	56	51	72	62	55	51	61	55	51	60	54	50	59	54	50	49					49			
9	69	58	52	47	68	58	51	47	57	51	47	56	51	47	55	50	47	45					45			
10	65	55	48	44	64	54	48	44	53	47	43	52	47	43	52	47	43	42					42			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	358420	358420	358420
5°	357362	363602	374458
10°	349671	367591	390486
15°	354067	368433	385908
20°	356712	364470	376274
25°	347577	350823	357549
30°	311783	312595	316344
35°	256135	252359	241439
40°	189234	183115	173756
45°	125507	124556	122690
50°	88788	84926	82926
55°	59337	53998	51057
60°	33390	28980	26408
65°	12900	9281	7683
70°	3760	2146	1794
75°	1060	596	715
80°	0	0	0
85°	708	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1124.4	6.8
10°-20°	3260.7	19.7
20°-30°	4682.5	28.2
30°-40°	4139.1	25.0
40°-50°	2265.7	13.7
50°-60°	932.7	5.6
60°-70°	167.1	1.0
70°-80°	7.3	0.0
80°-90°	0.6	0.0
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
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0°-30°	9067.5	54.7
0°-40°	13206.6	79.7
0°-60°	16405.0	98.9
0°-90°	16580.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	16580.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	11623	11623	11623	11623	11623	
5°	11545	11855	11746	11675	12097	###
15°	11091	11875	11541	11302	12088	3132
25°	10216	10492	10311	10175	10509	4621
35°	6804	6744	6704	6612	6414	4221
45°	2878	2962	2856	2734	2813	2316
55°	1104	1052	1004	972	950	1000
65°	177	138	127	102	105	206
75°	9	4	5	6	6	13
85°	2	2	0	6	0	1
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°	11623.3	11623.3	11623.3	11623.3	11623.3	11623.3	11623.3	11623.3	11623.3
2.5°	11608.4	11629.3	11639.2	11691.9	11674.0	11649.2	11663.1	11705.8	11798.2
5°	11544.9	11656.1	11854.8	11922.4	11746.5	11593.5	11675.0	11908.5	12097.2
7.5°	11335.2	11615.4	12085.3	12187.6	11780.3	11428.6	11570.7	12074.4	12372.4
10°	11167.3	11515.1	12160.8	12312.8	11739.6	11284.6	11450.5	12066.4	12470.8
12.5°	11110.7	11431.6	12065.4	12237.3	11671.0	11233.9	11379.9	11950.2	12345.6
15°	11090.9	11348.2	11874.7	12012.8	11540.9	11184.2	11302.5	11760.4	12088.3
17.5°	11029.3	11221.0	11613.4	11725.7	11362.1	11085.9	11177.3	11532.9	11796.2
20°	10870.3	11033.2	11315.4	11393.9	11106.7	10890.2	10948.8	11216.0	11466.4
22.5°	10621.9	10727.3	10955.7	10993.5	10766.0	10593.1	10629.9	10829.6	11012.4
25°	10215.6	10289.1	10491.8	10501.7	10311.0	10160.0	10174.9	10341.8	10508.7
27.5°	9532.1	9671.2	9820.2	9863.0	9623.5	9446.7	9492.4	9603.7	9799.4
30°	8756.3	8858.6	9004.6	8971.8	8779.1	8620.1	8639.0	8738.4	8884.4
32.5°	7788.6	7896.9	7971.4	7903.9	7806.5	7664.5	7621.7	7664.5	7704.2
35°	6804.1	6840.9	6743.5	6704.8	6703.8	6660.1	6612.4	6483.2	6413.7
37.5°	5864.3	5749.1	5574.2	5499.7	5585.2	5691.5	5548.4	5379.5	5292.1
40°	4701.0	4704.0	4594.7	4517.2	4549.0	4513.2	4450.6	4342.4	4316.5
42.5°	3674.8	3685.7	3720.5	3676.8	3600.3	3484.0	3449.3	3454.2	3530.7
45°	2878.0	2899.9	2962.5	2956.5	2856.2	2782.6	2734.0	2802.5	2813.4
47.5°	2288.9	2319.7	2345.5	2343.5	2266.1	2192.5	2170.7	2183.6	2210.4
50°	1850.8	1847.8	1827.9	1802.1	1770.3	1755.4	1730.6	1728.6	1728.6
52.5°	1425.6	1430.6	1390.8	1392.8	1377.9	1336.2	1325.3	1303.4	1303.4
55°	1103.7	1083.9	1052.1	1021.3	1004.4	975.6	971.6	948.7	949.7
57.5°	783.8	765.9	728.2	709.3	696.4	688.5	671.6	653.7	645.7
60°	541.4	526.5	505.7	486.8	469.9	465.9	450.0	432.1	428.2
62.5°	326.8	322.9	286.1	279.2	266.2	260.3	249.4	237.4	238.4
65°	176.8	151.0	138.1	130.1	127.2	111.3	102.3	100.3	105.3
67.5°	47.7	47.7	38.7	36.8	36.8	26.8	30.8	29.8	38.7
70°	41.7	29.8	25.8	20.9	23.8	13.9	25.8	20.9	19.9
72.5°	21.9	11.9	9.9	9.9	10.9	7.0	15.9	8.9	7.0
75°	8.9	6.0	4.0	2.0	5.0	5.0	6.0	2.0	6.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	2.0	3.0	2.0	0.0	0.0	0.0	6.0	0.0	0.0
87.5°	0.0	2.0	1.0	0.0	0.0	0.0	2.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)