

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: P248174

Luminaire Tested: **LSR8B150D010 EC8B150850 8LBW0GPH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248174
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-73)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B150D010 EC8B150850 8LBW0GPH
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 5000 CCT WITH GRAPHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14708.0 lumens
Efficiency: N/A
Efficacy: 92.8 lumens/watt
Spacing Criteria (0/90/45): 1.11 / 1.11 / 1.05
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

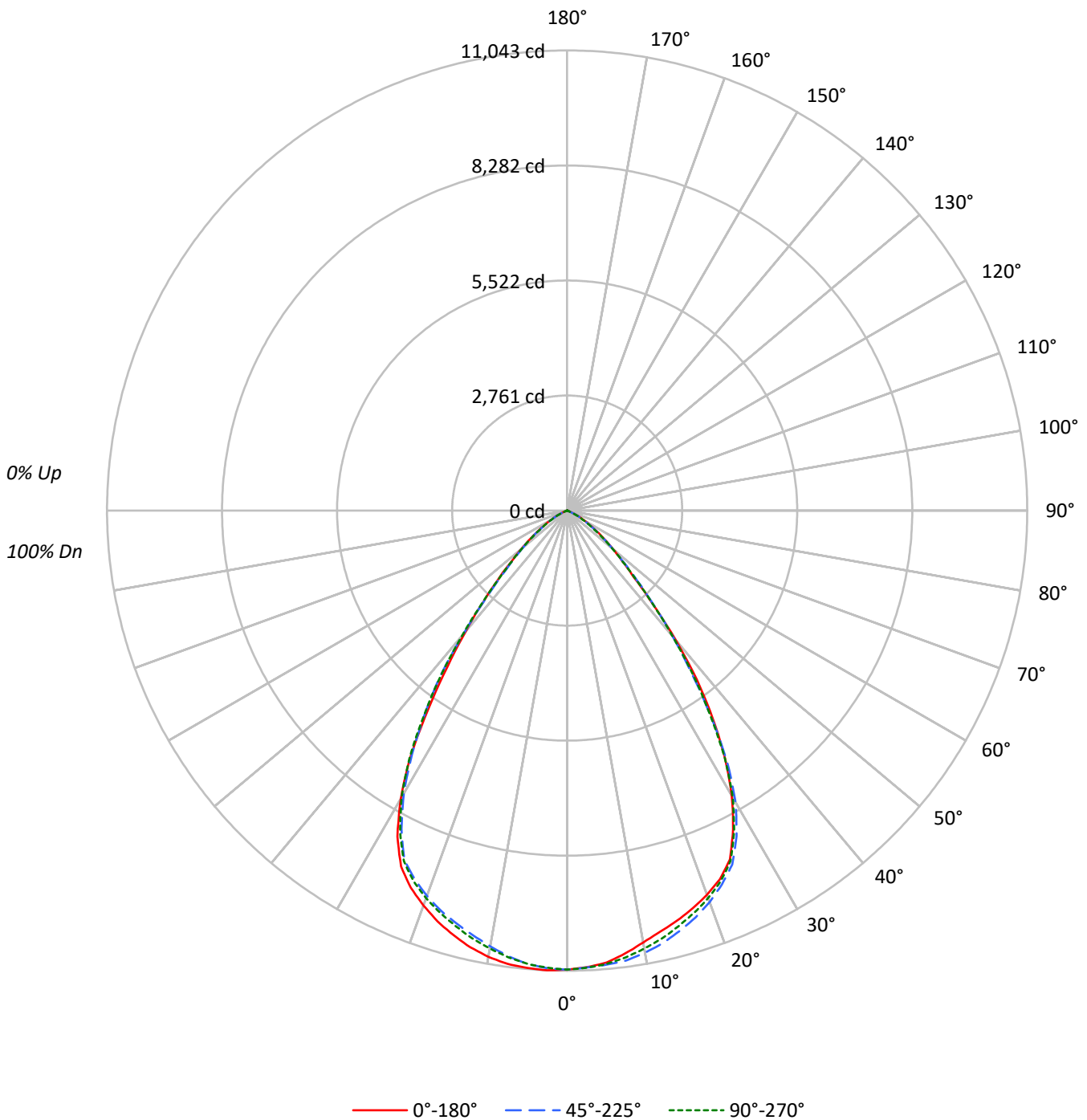
Input Watts (W): 158.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	82	88	84	80	86	82	79	84	80	78	76					76			
4	94	85	79	74	92	84	78	74	82	77	73	80	75	72	78	74	71	69					69			
5	88	79	72	67	86	78	71	67	76	70	66	74	69	65	72	68	65	63					63			
6	83	73	66	61	81	72	66	61	70	65	60	69	64	60	67	63	60	58					58			
7	78	68	61	56	77	67	60	56	65	60	55	64	59	55	63	58	55	53					53			
8	74	63	56	51	72	62	56	51	61	55	51	60	55	51	59	54	51	49					49			
9	70	59	52	48	68	58	52	47	57	51	47	56	51	47	55	50	47	45					45			
10	66	55	48	44	65	54	48	44	54	48	44	53	47	44	52	47	44	42					42			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	339696	339696	339696
5°	337075	338016	341086
10°	329490	334152	340496
15°	325262	329626	336707
20°	321941	324767	330851
25°	314400	315676	320708
30°	281418	282860	284448
35°	229347	224732	218099
40°	162642	158113	152285
45°	99163	100842	102874
50°	68515	67248	68659
55°	46504	43235	44595
60°	30170	26297	27611
65°	15892	12638	13601
70°	4201	3561	3201
75°	727	1454	846
80°	0	0	355
85°	708	708	708



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1035.8	7.0
10°-20°	2917.9	19.8
20°-30°	4207.7	28.6
30°-40°	3695.4	25.1
40°-50°	1868.6	12.7
50°-60°	764.8	5.2
60°-70°	201.1	1.4
70°-80°	14.2	0.1
80°-90°	2.5	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
0°-30°	8161.4	55.5
0°-40°	11856.8	80.6
0°-60°	14490.2	98.5
0°-90°	14708.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	14708.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	11016	11016	11016	11016	11016	
5°	10890	10939	10920	10920	11019	###
15°	10189	10441	10325	10258	10547	2875
25°	9240	9373	9278	9244	9426	4175
35°	6092	5988	5970	5945	5794	3756
45°	2274	2380	2312	2254	2359	1876
55°	865	831	804	802	830	799
65°	218	194	173	171	186	223
75°	6	4	12	4	7	15
85°	2	2	2	1	2	4
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°	11016.1	11016.1	11016.1	11016.1	11016.1	11016.1	11016.1	11016.1	11016.1
2.5°	10965.4	11019.1	10971.5	10999.9	10980.6	10949.2	10992.8	10972.5	11043.4
5°	10889.5	10954.3	10939.1	10974.5	10919.9	10862.1	10919.9	10924.9	11019.1
7.5°	10716.3	10827.7	10891.5	10934.0	10813.5	10719.3	10788.2	10850.0	10971.5
10°	10522.8	10657.5	10773.0	10838.8	10671.7	10533.9	10616.0	10721.3	10874.3
12.5°	10344.5	10493.4	10630.2	10694.0	10517.7	10362.8	10440.8	10571.4	10735.5
15°	10188.6	10311.1	10440.8	10506.6	10325.3	10178.4	10258.4	10379.0	10547.1
17.5°	10010.3	10125.8	10240.2	10291.9	10123.7	9996.1	10069.0	10172.3	10339.5
20°	9810.7	9910.0	9997.1	10057.9	9896.8	9775.3	9841.1	9937.4	10082.2
22.5°	9576.8	9651.7	9708.4	9763.1	9632.5	9511.9	9568.7	9644.6	9797.6
25°	9240.5	9316.5	9373.2	9435.0	9278.0	9174.7	9244.5	9277.0	9425.9
27.5°	8624.7	8720.9	8806.0	8860.7	8681.4	8592.3	8610.5	8664.2	8822.2
30°	7903.5	7950.1	8079.7	8095.9	7944.0	7789.0	7838.7	7895.4	7988.6
32.5°	7046.6	7072.9	7147.9	7156.0	7042.5	6923.0	6924.0	6898.7	6992.9
35°	6092.5	6032.7	5988.1	6018.5	5969.9	5991.2	5944.6	5828.1	5793.7
37.5°	5106.9	5068.4	4873.0	4857.8	4971.2	5040.1	4994.5	4735.2	4717.0
40°	4040.4	3996.8	3923.9	3912.8	3927.9	3967.4	3883.4	3806.4	3783.1
42.5°	3023.4	3046.7	3070.0	3091.3	3047.8	2962.7	2958.6	2944.4	2999.1
45°	2273.9	2323.5	2380.3	2408.6	2312.4	2246.6	2253.7	2285.1	2359.0
47.5°	1797.9	1808.0	1829.3	1853.6	1796.8	1712.8	1735.1	1785.7	1818.1
50°	1428.2	1438.3	1432.2	1429.2	1401.8	1351.2	1382.6	1420.1	1431.2
52.5°	1126.3	1113.2	1102.0	1094.9	1077.7	1057.4	1063.5	1094.9	1112.1
55°	865.0	854.9	830.6	820.4	804.2	799.2	802.2	826.5	829.5
57.5°	650.3	636.1	611.8	592.5	593.5	585.4	589.5	606.7	615.8
60°	489.2	480.1	437.6	440.6	426.4	424.4	433.5	443.6	447.7
62.5°	338.3	341.3	308.9	304.9	297.8	298.8	304.9	313.0	314.0
65°	217.8	204.6	193.5	185.4	173.2	167.1	171.2	193.5	186.4
67.5°	85.1	90.1	72.9	85.1	79.0	66.9	77.0	86.1	82.0
70°	46.6	47.6	39.5	37.5	39.5	36.5	41.5	46.6	35.5
72.5°	29.4	29.4	21.3	21.3	27.3	18.2	21.3	33.4	26.3
75°	6.1	7.1	4.1	2.0	12.2	6.1	4.1	12.2	7.1
77.5°	0.0	7.1	0.0	0.0	0.0	0.0	2.0	2.0	2.0
80°	0.0	0.0	0.0	3.0	0.0	0.0	0.0	2.0	2.0
82.5°	0.0	2.0	0.0	0.0	0.0	0.0	0.0	2.0	0.0
85°	2.0	8.1	2.0	0.0	2.0	2.0	1.0	6.1	2.0
87.5°	13.2	6.1	1.0	6.1	5.1	6.1	7.1	6.1	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)