

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: P248117

Luminaire Tested: **LSR8B150D010 EC8B150950 8LBW0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248117
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 EC8B150950 8LBW0WH
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
90 CRI 5000 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15390.0 lumens
Efficiency: N/A
Efficacy: 97.1 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

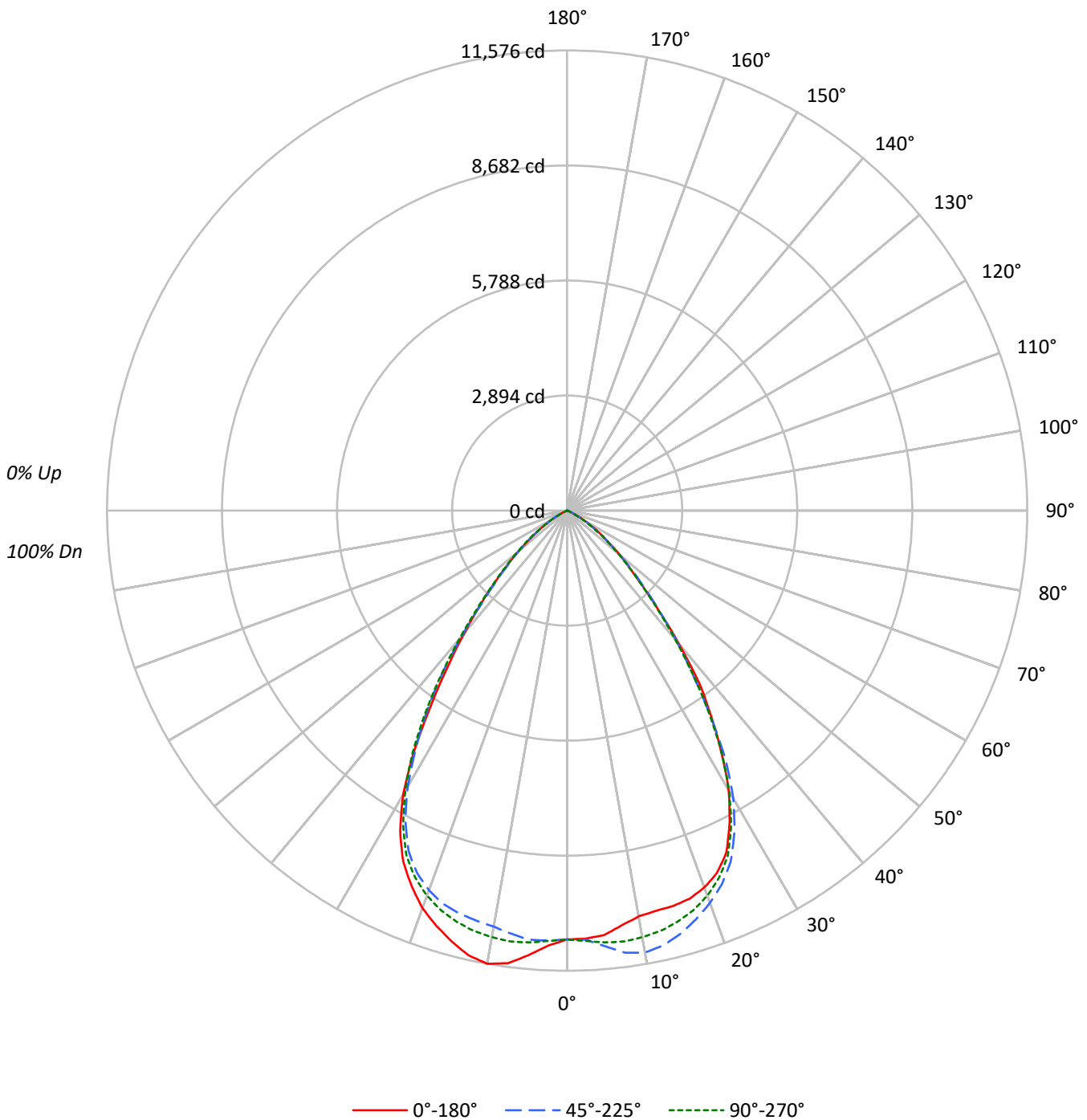
Input Watts (W): 158.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P248117

CATALOG NUMBER: LSR8B150D010 EC8B150950 8LBW0WH

Luminous Intensity Polar Plot





TEST NUMBER: P248117

CATALOG NUMBER: LSR8B150D010 EC8B150950 8LBW0WH

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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	332696	332696	332696
5°	331710	337505	347584
10°	324574	341207	362458
15°	328652	341990	358211
20°	331110	338313	349267
25°	322630	325641	331888
30°	289404	290159	293638
35°	237753	234245	224111
40°	175652	169972	161285
45°	116502	115617	113885
50°	82417	78834	76972
55°	55079	50122	47396
60°	30997	26902	24509
65°	11974	8610	7129
70°	3489	1993	1659
75°	989	548	655
80°	0	0	0
85°	637	0	0



TEST NUMBER: P248117

CATALOG NUMBER: LSR8B150D010 EC8B150950 8LBW0WH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1043.7	6.8
10°-20°	3026.6	19.7
20°-30°	4346.4	28.2
30°-40°	3842.0	25.0
40°-50°	2103.1	13.7
50°-60°	865.8	5.6
60°-70°	155.1	1.0
70°-80°	6.7	0.0
80°-90°	0.5	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°	8416.7	54.7
0°-40°	12258.7	79.7
0°-60°	15227.6	98.9
0°-90°	15390.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15390.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	10789	10789	10789	10789	10789	
5°	10716	11004	10903	10837	11229	###
15°	10295	11022	10713	10491	11221	2908
25°	9482	9739	9571	9445	9754	4289
35°	6316	6260	6223	6138	5953	3918
45°	2672	2750	2651	2538	2612	2150
55°	1024	977	932	902	882	928
65°	164	128	118	95	98	191
75°	8	4	5	6	6	13
85°	2	2	0	6	0	0
90°	0	0	0	0	0	



TEST NUMBER: P248117

CATALOG NUMBER: LSR8B150D010 EC8B150950 8LBW0WH

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	10789.1	10789.1	10789.1	10789.1	10789.1	10789.1	10789.1	10789.1	10789.1
2.5°	10775.3	10794.6	10803.9	10852.7	10836.1	10813.1	10826.0	10865.6	10951.4
5°	10716.2	10819.5	11004.0	11066.7	10903.4	10761.4	10837.0	11053.8	11229.0
7.5°	10521.7	10781.7	11217.9	11312.9	10934.8	10608.4	10740.2	11207.8	11484.4
10°	10365.8	10688.6	11288.0	11429.1	10897.0	10474.6	10628.6	11200.4	11575.7
12.5°	10313.3	10611.1	11199.5	11359.0	10833.4	10427.6	10563.2	11092.5	11459.5
15°	10294.8	10533.7	11022.4	11150.6	10712.6	10381.5	10491.2	10916.4	11220.7
17.5°	10237.7	10415.6	10779.9	10884.1	10546.6	10290.2	10375.1	10705.2	10949.6
20°	10090.1	10241.3	10503.2	10576.1	10309.6	10108.6	10163.0	10411.0	10643.4
22.5°	9859.6	9957.3	10169.4	10204.5	9993.3	9832.8	9867.0	10052.3	10222.0
25°	9482.4	9550.7	9738.8	9748.0	9570.9	9430.8	9444.6	9599.5	9754.5
27.5°	8848.0	8977.1	9115.4	9155.1	8932.8	8768.7	8811.1	8914.4	9096.0
30°	8127.8	8222.8	8358.3	8327.9	8149.0	8001.5	8019.0	8111.2	8246.7
32.5°	7229.6	7330.1	7399.3	7336.6	7246.2	7114.3	7074.7	7114.3	7151.2
35°	6315.8	6349.9	6259.5	6223.6	6222.6	6182.1	6137.8	6017.9	5953.4
37.5°	5443.4	5336.5	5174.2	5105.0	5184.3	5283.0	5150.2	4993.4	4912.3
40°	4363.6	4366.4	4264.9	4193.0	4222.5	4189.3	4131.2	4030.7	4006.7
42.5°	3411.0	3421.2	3453.4	3412.9	3341.9	3234.0	3201.7	3206.3	3277.3
45°	2671.5	2691.7	2749.8	2744.3	2651.2	2582.9	2537.7	2601.4	2611.5
47.5°	2124.6	2153.2	2177.2	2175.3	2103.4	2035.2	2014.9	2026.9	2051.8
50°	1718.0	1715.2	1696.7	1672.8	1643.3	1629.4	1606.4	1604.5	1604.5
52.5°	1323.3	1327.9	1291.0	1292.8	1279.0	1240.3	1230.1	1209.9	1209.9
55°	1024.5	1006.1	976.6	948.0	932.3	905.5	901.9	880.6	881.6
57.5°	727.6	711.0	675.9	658.4	646.4	639.0	623.4	606.8	599.4
60°	502.6	488.7	469.4	451.9	436.2	432.5	417.7	401.1	397.4
62.5°	303.4	299.7	265.6	259.1	247.1	241.6	231.5	220.4	221.3
65°	164.1	140.2	128.2	120.8	118.0	103.3	95.0	93.1	97.7
67.5°	44.3	44.3	36.0	34.1	34.1	24.9	28.6	27.7	36.0
70°	38.7	27.7	24.0	19.4	22.1	12.9	24.0	19.4	18.4
72.5°	20.3	11.1	9.2	9.2	10.1	6.5	14.8	8.3	6.5
75°	8.3	5.5	3.7	1.8	4.6	4.6	5.5	1.8	5.5
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°	1.8	2.8	1.8	0.0	0.0	0.0	5.5	0.0	0.0
87.5°	0.0	1.8	0.9	0.0	0.0	0.0	1.8	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)