

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: P248153

Luminaire Tested: **LSR8B150D010 EC8B150950 8LBS0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248153
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-94)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B150D010 EC8B150950 8LBS0WH
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
90 CRI 5000 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16663.0 lumens
Efficiency: N/A
Efficacy: 105.1 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.23
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

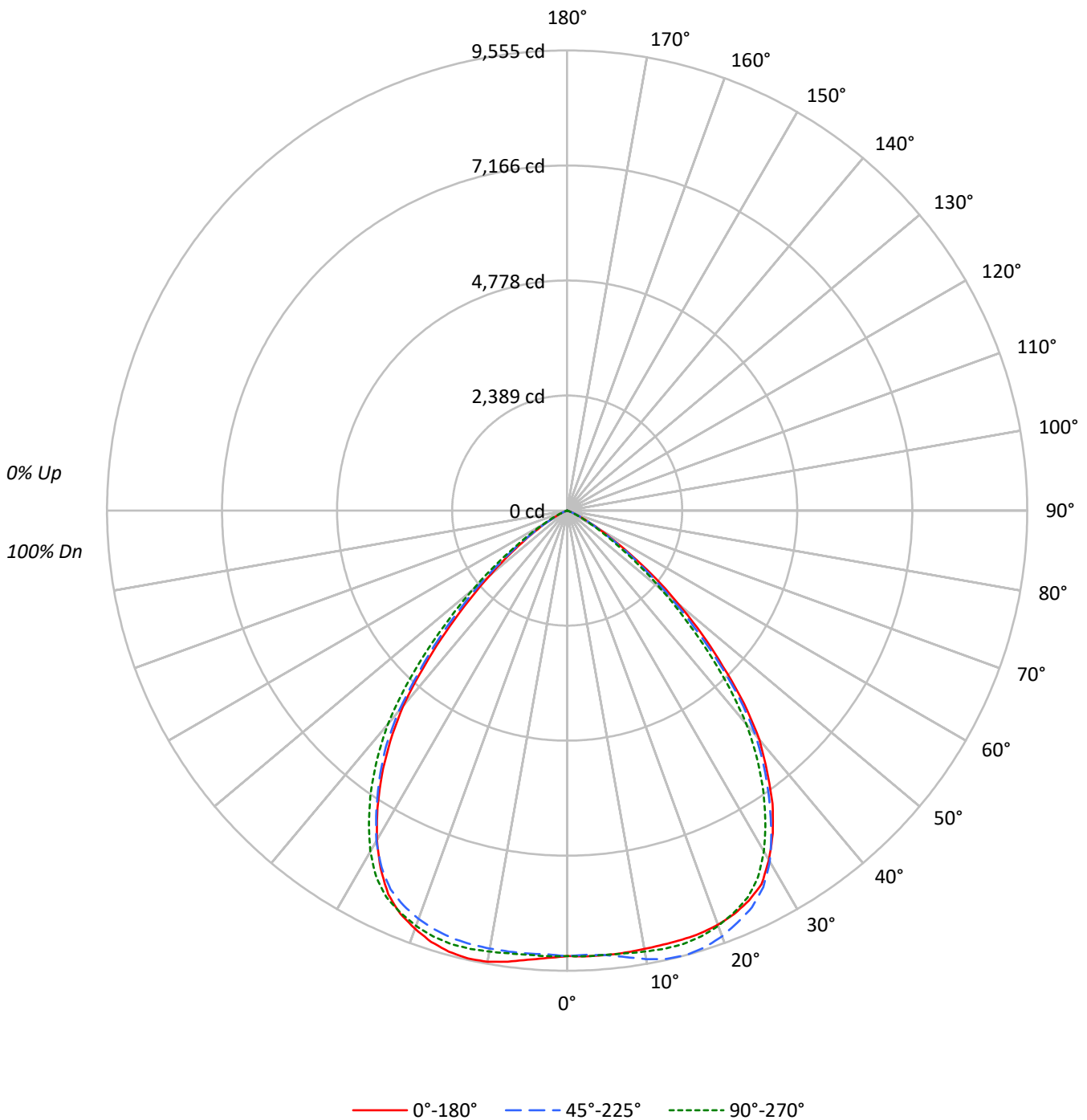
Input Watts (W): 158.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	103	110	107	104	102	103	101	99	99	97	96	96	94	93	91					91			
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	86	84	82					82			
3	98	90	84	79	96	89	83	79	86	81	78	84	80	76	81	78	75	73					73			
4	92	82	76	71	90	81	75	70	79	74	69	77	72	68	75	71	68	66					66			
5	86	75	68	63	84	74	68	63	72	67	62	71	66	62	69	65	61	59					59			
6	80	69	62	57	78	68	61	56	67	61	56	65	60	56	64	59	55	53					53			
7	75	64	56	51	73	63	56	51	62	55	51	60	55	50	59	54	50	48					48			
8	70	59	52	47	69	58	51	46	57	51	46	56	50	46	55	50	46	44					44			
9	66	54	47	43	65	54	47	43	53	47	42	52	46	42	51	46	42	40					40			
10	62	51	44	39	61	50	44	39	49	43	39	48	43	39	48	42	39	37					37			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	285257	285257	285257
5°	286774	286573	289743
10°	289426	291158	297827
15°	294493	297440	302679
20°	300355	301143	303200
25°	304016	301726	299089
30°	298292	291003	281218
35°	279851	267390	252773
40°	249997	233070	213394
45°	199377	179469	155541
50°	144432	123285	100417
55°	89583	72874	57605
60°	46063	36227	28949
65°	19649	14732	11302
70°	6239	3074	1993
75°	1644	989	989
80°	1314	817	657
85°	991	318	318



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	887.0	5.3
10°-20°	2640.0	15.8
20°-30°	4057.9	24.4
30°-40°	4386.5	26.3
40°-50°	3156.5	18.9
50°-60°	1273.7	7.6
60°-70°	244.9	1.5
70°-80°	14.6	0.1
80°-90°	2.0	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°	7584.8	45.5
0°-40°	11971.3	71.8
0°-60°	16401.5	98.4
0°-90°	16663.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	16663.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	9251	9251	9251	9251	9251	
5°	9264	9267	9258	9231	9360	884
15°	9225	9555	9317	9194	9481	2611
25°	8935	9088	8868	8677	8790	4099
35°	7434	7316	7103	6796	6715	4604
45°	4572	4436	4115	3778	3567	3532
55°	1666	1541	1356	1171	1072	1553
65°	269	275	202	158	155	315
75°	14	11	8	8	8	23
85°	3	2	1	1	1	3
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°	9250.7	9250.7	9250.7	9250.7	9250.7	9250.7	9250.7	9250.7	9250.7
2.5°	9264.5	9251.6	9233.1	9232.2	9261.7	9245.1	9224.8	9246.1	9298.6
5°	9264.5	9266.3	9267.3	9259.0	9258.0	9230.4	9231.3	9288.5	9360.4
7.5°	9258.0	9294.0	9350.3	9337.3	9272.8	9211.9	9236.8	9352.1	9448.0
10°	9243.3	9327.2	9456.3	9436.9	9298.6	9195.3	9235.0	9395.4	9511.6
12.5°	9230.4	9345.6	9536.5	9513.5	9319.8	9184.3	9223.9	9401.0	9526.4
15°	9224.8	9349.3	9555.0	9526.4	9317.1	9162.1	9194.4	9360.4	9481.2
17.5°	9204.6	9320.7	9508.9	9473.8	9269.1	9110.5	9124.3	9275.6	9389.9
20°	9152.9	9252.5	9406.5	9358.6	9176.9	9017.4	9022.0	9136.3	9239.6
22.5°	9065.3	9143.7	9255.3	9209.2	9039.5	8894.7	8875.4	8971.3	9057.9
25°	8935.3	8998.9	9088.4	9038.6	8868.0	8720.5	8677.1	8738.0	8790.5
27.5°	8744.4	8766.6	8817.3	8740.7	8583.1	8438.3	8347.9	8357.1	8384.8
30°	8377.4	8413.4	8418.0	8330.4	8172.7	8004.9	7921.9	7875.8	7897.9
32.5°	7945.9	7935.7	7889.6	7783.6	7660.0	7526.3	7369.6	7317.0	7329.0
35°	7434.1	7410.1	7316.1	7214.6	7103.1	6938.9	6796.0	6718.5	6714.8
37.5°	6810.7	6778.5	6716.7	6576.5	6474.2	6335.9	6180.0	6094.3	6029.7
40°	6210.5	6159.7	6086.9	5919.1	5790.0	5597.2	5437.7	5318.8	5301.2
42.5°	5435.9	5411.0	5306.8	5138.0	4976.7	4748.9	4563.6	4464.0	4412.3
45°	4571.9	4571.9	4436.3	4287.8	4115.4	3945.7	3777.9	3629.4	3566.7
47.5°	3798.2	3702.3	3574.1	3415.5	3289.2	3169.3	2991.3	2808.8	2766.3
50°	3010.7	2949.8	2798.6	2647.4	2569.9	2455.6	2315.4	2138.4	2093.2
52.5°	2326.5	2230.6	2099.7	1987.2	1914.3	1824.9	1672.7	1551.9	1528.9
55°	1666.3	1617.4	1540.9	1448.6	1355.5	1261.5	1171.1	1101.9	1071.5
57.5°	1141.6	1125.0	1061.4	1007.0	916.6	833.6	750.6	728.5	730.3
60°	746.9	746.0	714.6	665.8	587.4	511.8	473.0	462.0	469.4
62.5°	451.8	460.1	451.8	423.3	363.3	305.2	277.6	283.1	278.5
65°	269.3	277.6	274.8	237.9	201.9	177.0	157.7	150.3	154.9
67.5°	156.8	152.1	140.2	122.6	100.5	83.0	70.1	63.6	64.5
70°	69.2	65.5	59.0	45.2	34.1	27.7	23.1	21.2	22.1
72.5°	25.8	24.9	21.2	17.5	14.8	12.0	11.1	11.1	11.1
75°	13.8	12.9	11.1	9.2	8.3	8.3	8.3	8.3	8.3
77.5°	10.1	9.2	8.3	7.4	6.5	5.5	5.5	5.5	5.5
80°	7.4	6.5	5.5	4.6	4.6	3.7	3.7	3.7	3.7
82.5°	4.6	4.6	3.7	2.8	2.8	1.8	1.8	1.8	1.8
85°	2.8	2.8	1.8	1.8	0.9	0.9	0.9	0.9	0.9
87.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)