

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: P248093

Luminaire Tested: **LSR8B150D010 EC8B150830 8LBW0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248093
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 EC8B150830 8LBW0WH
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 3000 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16049.0 lumens
Efficiency: N/A
Efficacy: 101.3 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

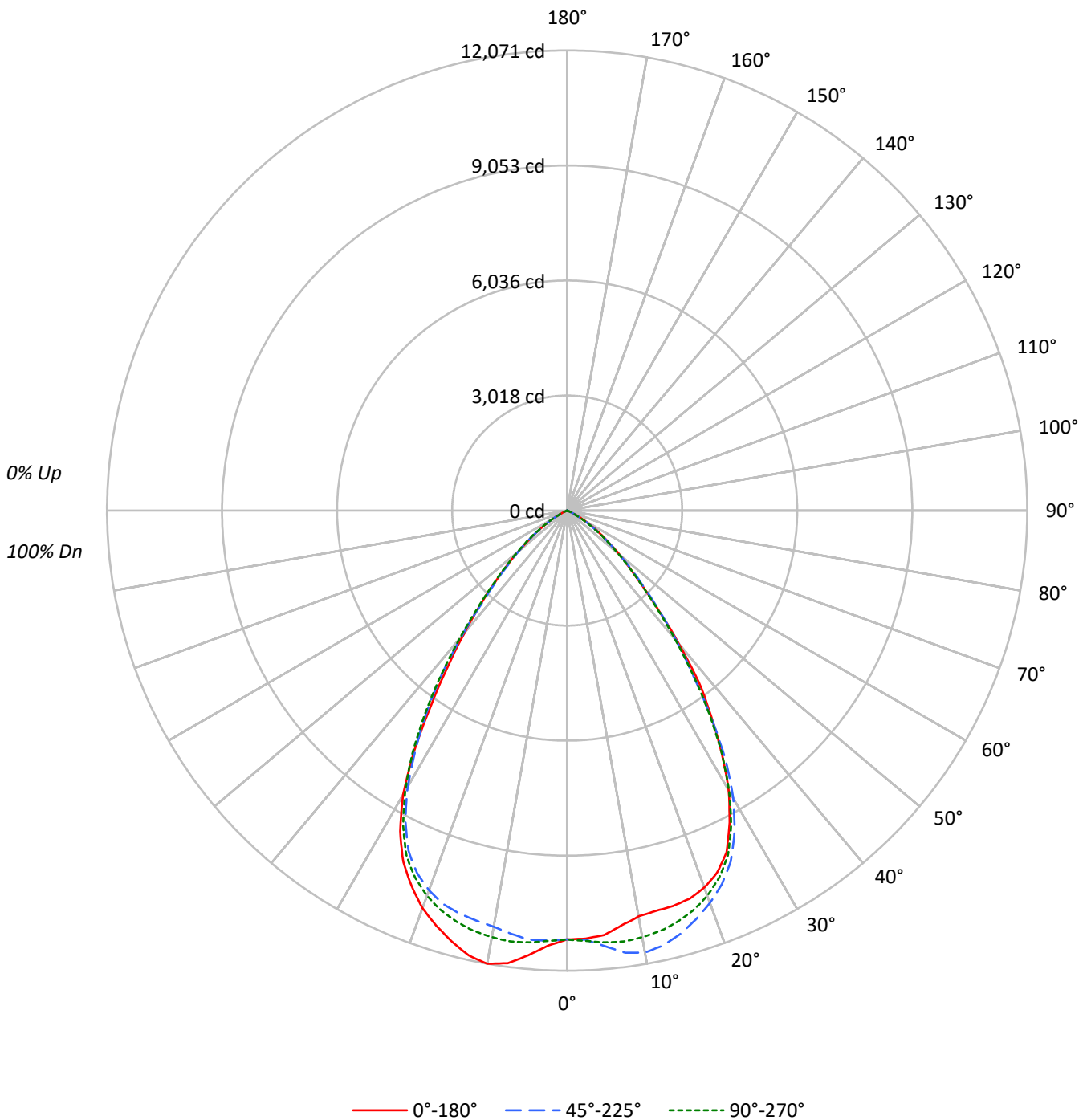
Input Watts (W): 158.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				
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°	346942	346942	346942
5°	345915	351957	362466
10°	338473	355817	377980
15°	342728	356634	373547
20°	345289	352798	364221
25°	336447	339588	346097
30°	301795	302582	306214
35°	247932	244277	233706
40°	183172	177250	168193
45°	121486	120566	118761
50°	85943	82206	80268
55°	57439	52267	49423
60°	32323	28055	25563
65°	12492	8982	7435
70°	3642	2083	1731
75°	1037	572	691
80°	0	0	0
85°	672	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1088.4	6.8
10°-20°	3156.2	19.7
20°-30°	4532.5	28.2
30°-40°	4006.5	25.0
40°-50°	2193.1	13.7
50°-60°	902.9	5.6
60°-70°	161.8	1.0
70°-80°	7.0	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
0°-30°	8777.1	54.7
0°-40°	12783.7	79.7
0°-60°	15879.7	98.9
0°-90°	16049.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	16049.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	11251	11251	11251	11251	11251	
5°	11175	11475	11370	11301	11710	###
15°	10736	11494	11171	10940	11701	3032
25°	9888	10156	9981	9849	10172	4473
35°	6586	6528	6489	6401	6208	4086
45°	2786	2868	2765	2646	2723	2242
55°	1068	1018	972	940	919	968
65°	171	134	123	99	102	199
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°	11251.1	11251.1	11251.1	11251.1	11251.1	11251.1	11251.1	11251.1	11251.1
2.5°	11236.7	11256.9	11266.5	11317.4	11300.1	11276.1	11289.6	11330.9	11420.3
5°	11175.1	11282.8	11475.1	11540.5	11370.3	11222.2	11301.1	11527.1	11709.8
7.5°	10972.2	11243.4	11698.2	11797.3	11403.0	11062.6	11200.1	11687.7	11976.2
10°	10809.7	11146.3	11771.3	11918.5	11363.6	10923.2	11083.8	11680.0	12071.4
12.5°	10754.9	11065.5	11679.0	11845.4	11297.2	10874.1	11015.5	11567.5	11950.2
15°	10735.7	10984.7	11494.4	11628.0	11171.3	10826.0	10940.5	11383.8	11701.1
17.5°	10676.0	10861.6	11241.5	11350.1	10998.2	10730.8	10819.3	11163.6	11418.4
20°	10522.2	10679.9	10953.0	11028.9	10751.0	10541.4	10598.1	10856.8	11099.1
22.5°	10281.8	10383.7	10604.9	10641.4	10421.2	10253.9	10289.5	10482.7	10659.7
25°	9888.5	9959.6	10155.8	10165.4	9980.8	9834.6	9849.0	10010.6	10172.1
27.5°	9226.9	9361.5	9505.7	9547.1	9315.3	9144.2	9188.4	9296.1	9485.5
30°	8475.8	8574.9	8716.2	8684.5	8497.9	8344.1	8362.3	8458.5	8599.9
32.5°	7539.2	7644.0	7716.1	7650.7	7556.5	7419.0	7377.6	7419.0	7457.5
35°	6586.2	6621.8	6527.6	6490.0	6489.1	6446.8	6400.6	6275.6	6208.3
37.5°	5676.5	5565.0	5395.7	5323.6	5406.3	5509.2	5370.7	5207.2	5122.6
40°	4550.4	4553.3	4447.5	4372.5	4403.3	4368.7	4308.1	4203.3	4178.3
42.5°	3557.1	3567.7	3601.3	3559.0	3485.0	3372.4	3338.8	3343.6	3417.6
45°	2785.8	2807.0	2867.6	2861.8	2764.7	2693.5	2646.4	2712.8	2723.3
47.5°	2215.6	2245.4	2270.4	2268.5	2193.5	2122.3	2101.2	2113.7	2139.6
50°	1791.5	1788.6	1769.4	1744.4	1713.6	1699.2	1675.2	1673.2	1673.2
52.5°	1379.9	1384.7	1346.3	1348.2	1333.8	1293.4	1282.8	1261.7	1261.7
55°	1068.4	1049.1	1018.4	988.6	972.2	944.3	940.5	918.4	919.3
57.5°	758.7	741.4	704.9	686.6	674.1	666.4	650.1	632.8	625.1
60°	524.1	509.7	489.5	471.2	454.9	451.0	435.6	418.3	414.5
62.5°	316.4	312.5	276.9	270.2	257.7	251.9	241.4	229.8	230.8
65°	171.2	146.2	133.7	126.0	123.1	107.7	99.0	97.1	101.9
67.5°	46.2	46.2	37.5	35.6	35.6	26.0	29.8	28.8	37.5
70°	40.4	28.8	25.0	20.2	23.1	13.5	25.0	20.2	19.2
72.5°	21.2	11.5	9.6	9.6	10.6	6.7	15.4	8.7	6.7
75°	8.7	5.8	3.8	1.9	4.8	4.8	5.8	1.9	5.8
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°	1.9	2.9	1.9	0.0	0.0	0.0	5.8	0.0	0.0
87.5°	0.0	1.9	1.0	0.0	0.0	0.0	1.9	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)