

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: P248138

Luminaire Tested: **LSR8B150D010 EC8B150850 8LBS0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248138
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 EC8B150850 8LBS0WH
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 5000 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18303.0 lumens
Efficiency: N/A
Efficacy: 115.5 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

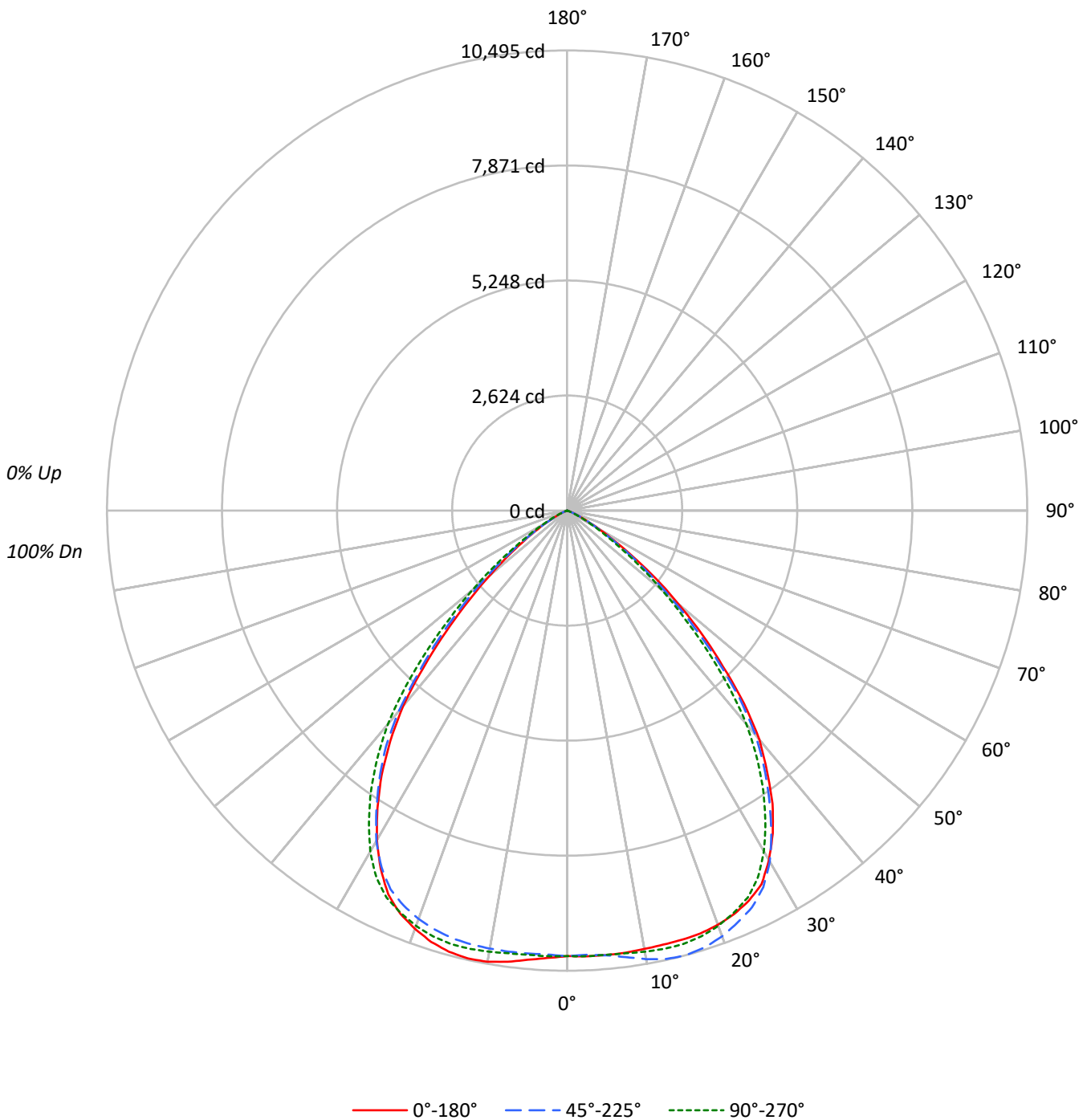
Input Watts (W): 158.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	313331	313331	313331
5°	314998	314778	318261
10°	317911	319815	327142
15°	323481	326714	332470
20°	329919	330782	333043
25°	333936	331422	328527
30°	327649	319645	308895
35°	307395	293707	277652
40°	274600	256007	234399
45°	218996	197131	170852
50°	158646	135422	110299
55°	98400	80045	63277
60°	50596	39791	31798
65°	21583	16184	12419
70°	6852	3381	2191
75°	1811	1084	1084
80°	1438	906	728
85°	1061	354	354



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	974.3	5.3
10°-20°	2899.8	15.8
20°-30°	4457.2	24.4
30°-40°	4818.2	26.3
40°-50°	3467.1	18.9
50°-60°	1399.1	7.6
60°-70°	269.0	1.5
70°-80°	16.0	0.1
80°-90°	2.2	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°	8331.3	45.5
0°-40°	13149.5	71.8
0°-60°	18015.7	98.4
0°-90°	18303.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	18303.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	10161	10161	10161	10161	10161	
5°	10176	10179	10169	10140	10282	971
15°	10133	10495	10234	10099	10414	2868
25°	9815	9983	9741	9531	9656	4503
35°	8166	8036	7802	7465	7376	5057
45°	5022	4873	4520	4150	3918	3879
55°	1830	1692	1489	1286	1177	1706
65°	296	302	222	173	170	346
75°	15	12	9	9	9	25
85°	3	2	1	1	1	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°	10161.1	10161.1	10161.1	10161.1	10161.1	10161.1	10161.1	10161.1	10161.1
2.5°	10176.3	10162.1	10141.9	10140.9	10173.3	10155.1	10132.8	10156.1	10213.8
5°	10176.3	10178.4	10179.4	10170.2	10169.2	10138.9	10139.9	10202.7	10281.7
7.5°	10169.2	10208.7	10270.5	10256.3	10185.4	10118.6	10145.9	10272.5	10377.9
10°	10153.0	10245.2	10387.0	10365.7	10213.8	10100.4	10143.9	10320.2	10447.8
12.5°	10138.9	10265.5	10475.1	10449.8	10237.1	10088.2	10131.8	10326.2	10464.0
15°	10132.8	10269.5	10495.4	10464.0	10234.1	10063.9	10099.3	10281.7	10414.4
17.5°	10110.5	10238.1	10444.7	10406.2	10181.4	10007.2	10022.4	10188.5	10314.1
20°	10053.8	10163.2	10332.3	10279.6	10080.1	9904.9	9909.9	10035.5	10149.0
22.5°	9957.5	10043.6	10166.2	10115.6	9929.2	9770.2	9748.9	9854.2	9949.4
25°	9814.7	9884.6	9982.9	9928.2	9740.8	9578.7	9531.1	9598.0	9655.7
27.5°	9605.1	9629.4	9685.1	9601.0	9427.8	9268.8	9169.5	9179.7	9210.0
30°	9201.9	9241.4	9246.5	9150.3	8977.1	8792.7	8701.6	8650.9	8675.2
32.5°	8727.9	8716.8	8666.1	8549.7	8413.9	8267.1	8094.9	8037.1	8050.3
35°	8165.8	8139.4	8036.1	7924.7	7802.2	7621.9	7464.9	7379.8	7375.7
37.5°	7481.1	7445.6	7377.8	7223.8	7111.4	6959.4	6788.3	6694.1	6623.2
40°	6821.7	6766.0	6686.0	6501.6	6359.8	6148.1	5972.9	5842.2	5823.0
42.5°	5970.9	5943.5	5829.1	5643.7	5466.5	5216.3	5012.7	4903.3	4846.6
45°	5021.8	5021.8	4872.9	4709.9	4520.4	4334.1	4149.7	3986.7	3917.8
47.5°	4172.0	4066.7	3925.9	3751.7	3612.9	3481.2	3285.8	3085.2	3038.6
50°	3307.0	3240.2	3074.1	2908.0	2822.9	2697.3	2543.3	2348.9	2299.2
52.5°	2555.5	2450.1	2306.3	2182.7	2102.7	2004.5	1837.4	1704.7	1679.3
55°	1830.3	1776.6	1692.5	1591.2	1488.9	1385.6	1286.3	1210.4	1177.0
57.5°	1253.9	1235.7	1165.8	1106.1	1006.8	915.6	824.5	800.2	802.2
60°	820.4	819.4	785.0	731.3	645.2	562.1	519.6	507.4	515.6
62.5°	496.3	505.4	496.3	464.9	399.1	335.3	304.9	311.0	305.9
65°	295.8	304.9	301.8	261.3	221.8	194.5	173.2	165.1	170.2
67.5°	172.2	167.1	154.0	134.7	110.4	91.2	77.0	69.9	70.9
70°	76.0	71.9	64.8	49.6	37.5	30.4	25.3	23.3	24.3
72.5°	28.4	27.3	23.3	19.2	16.2	13.2	12.2	12.2	12.2
75°	15.2	14.2	12.2	10.1	9.1	9.1	9.1	9.1	9.1
77.5°	11.1	10.1	9.1	8.1	7.1	6.1	6.1	6.1	6.1
80°	8.1	7.1	6.1	5.1	5.1	4.1	4.1	4.1	4.1
82.5°	5.1	5.1	4.1	3.0	3.0	2.0	2.0	2.0	2.0
85°	3.0	3.0	2.0	2.0	1.0	1.0	1.0	1.0	1.0
87.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)