

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: P248114

Luminaire Tested: **LSR8B150D010 EC8B150940 8LBW0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248114
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 EC8B150940 8LBW0WH
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
90 CRI 4000 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14865.0 lumens
Efficiency: N/A
Efficacy: 93.8 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

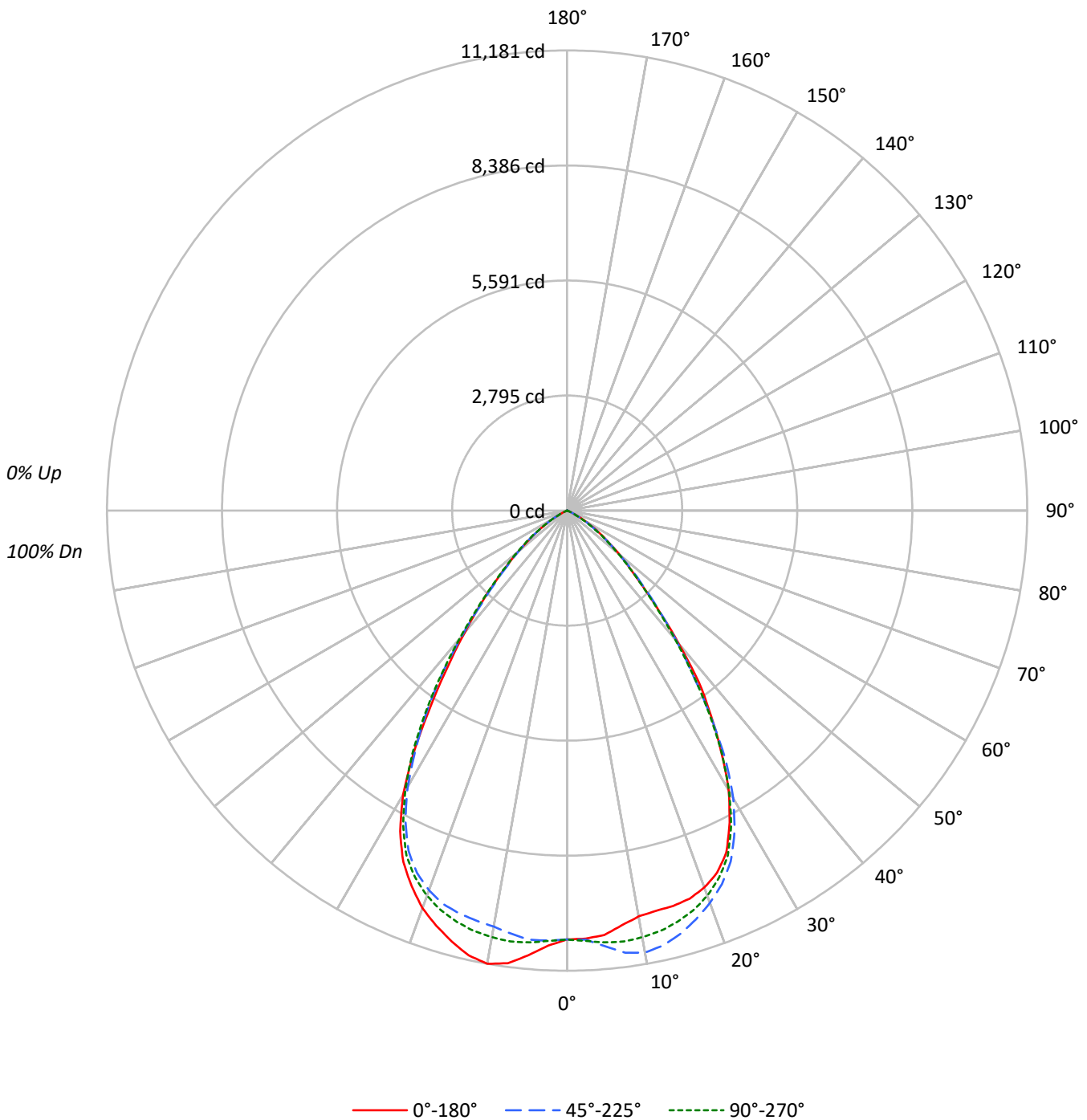
Input Watts (W): 158.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	321345	321345	321345
5°	320397	325993	335725
10°	313502	329568	350093
15°	317440	330322	345990
20°	319815	326772	337351
25°	311623	314532	320565
30°	279530	280260	283622
35°	229641	226257	216465
40°	169658	164176	155783
45°	112525	111670	110000
50°	79606	76142	74348
55°	53202	48412	45778
60°	29936	25983	23676
65°	11565	8318	6888
70°	3372	1929	1605
75°	953	536	631
80°	0	0	0
85°	637	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1008.1	6.8
10°-20°	2923.4	19.7
20°-30°	4198.2	28.2
30°-40°	3710.9	25.0
40°-50°	2031.3	13.7
50°-60°	836.3	5.6
60°-70°	149.8	1.0
70°-80°	6.5	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°	8129.6	54.7
0°-40°	11840.6	79.7
0°-60°	14708.1	98.9
0°-90°	14865.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	14865.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	10421	10421	10421	10421	10421	
5°	10351	10629	10532	10467	10846	975
15°	9944	10646	10347	10133	10838	2808
25°	9159	9407	9244	9122	9422	4143
35°	6100	6046	6010	5928	5750	3784
45°	2580	2656	2561	2451	2522	2077
55°	990	943	900	871	852	897
65°	158	124	114	92	94	185
75°	8	4	4	5	5	12
85°	2	2	0	5	0	0
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°	10421.0	10421.0	10421.0	10421.0	10421.0	10421.0	10421.0	10421.0	10421.0
2.5°	10407.7	10426.4	10435.3	10482.5	10466.5	10444.2	10456.7	10495.0	10577.8
5°	10350.7	10450.4	10628.6	10689.1	10531.5	10394.3	10467.4	10676.7	10845.9
7.5°	10162.7	10413.9	10835.2	10927.0	10561.8	10246.5	10373.8	10825.4	11092.6
10°	10012.2	10324.0	10902.9	11039.2	10525.3	10117.3	10266.1	10818.3	11180.8
12.5°	9961.5	10249.1	10817.4	10971.5	10463.8	10071.9	10202.8	10714.1	11068.6
15°	9943.6	10174.3	10646.4	10770.2	10347.1	10027.4	10133.4	10544.0	10837.9
17.5°	9888.4	10060.3	10412.1	10512.8	10186.8	9939.2	10021.1	10340.0	10576.0
20°	9745.9	9892.0	10144.9	10215.3	9957.9	9763.7	9816.3	10055.9	10280.3
22.5°	9523.2	9617.6	9822.5	9856.4	9652.4	9497.4	9530.4	9709.4	9873.3
25°	9158.9	9224.9	9406.6	9415.5	9244.4	9109.1	9122.4	9272.1	9421.7
27.5°	8546.1	8670.8	8804.4	8842.7	8628.1	8469.6	8510.5	8610.3	8785.7
30°	7850.5	7942.3	8073.2	8043.8	7871.0	7728.5	7745.4	7834.5	7965.4
32.5°	6983.0	7080.1	7146.9	7086.3	6999.0	6871.7	6833.4	6871.7	6907.3
35°	6100.3	6133.3	6046.0	6011.3	6010.4	5971.2	5928.4	5812.6	5750.3
37.5°	5257.7	5154.4	4997.6	4930.8	5007.4	5102.8	4974.5	4823.1	4744.7
40°	4214.7	4217.4	4119.4	4050.0	4078.5	4046.4	3990.3	3893.2	3870.0
42.5°	3294.7	3304.5	3335.6	3296.4	3227.9	3123.6	3092.5	3096.9	3165.5
45°	2580.3	2599.9	2656.0	2650.7	2560.7	2494.8	2451.2	2512.6	2522.4
47.5°	2052.1	2079.8	2102.9	2101.1	2031.7	1965.7	1946.2	1957.7	1981.8
50°	1659.4	1656.7	1638.9	1615.7	1587.2	1573.8	1551.6	1549.8	1549.8
52.5°	1278.1	1282.6	1247.0	1248.7	1235.4	1198.0	1188.2	1168.6	1168.6
55°	989.6	971.7	943.2	915.6	900.5	874.7	871.1	850.6	851.5
57.5°	702.8	686.7	652.9	636.0	624.4	617.2	602.1	586.1	578.9
60°	485.4	472.1	453.4	436.4	421.3	417.7	403.5	387.4	383.9
62.5°	293.0	289.5	256.5	250.3	238.7	233.4	223.6	212.9	213.8
65°	158.5	135.4	123.8	116.7	114.0	99.8	91.7	90.0	94.4
67.5°	42.8	42.8	34.7	33.0	33.0	24.0	27.6	26.7	34.7
70°	37.4	26.7	23.2	18.7	21.4	12.5	23.2	18.7	17.8
72.5°	19.6	10.7	8.9	8.9	9.8	6.2	14.3	8.0	6.2
75°	8.0	5.3	3.6	1.8	4.5	4.5	5.3	1.8	5.3
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	2.7	1.8	0.0	0.0	0.0	5.3	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)