

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: P248183

Luminaire Tested: **LSR8B150D010 EC8B150935 8LBW0GPH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248183
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-73)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B150D010 EC8B150935 8LBW0GPH
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
90 CRI 3500 CCT WITH GRAPHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12383.0 lumens
Efficiency: N/A
Efficacy: 78.1 lumens/watt
Spacing Criteria (0/90/45): 1.11 / 1.11 / 1.05
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

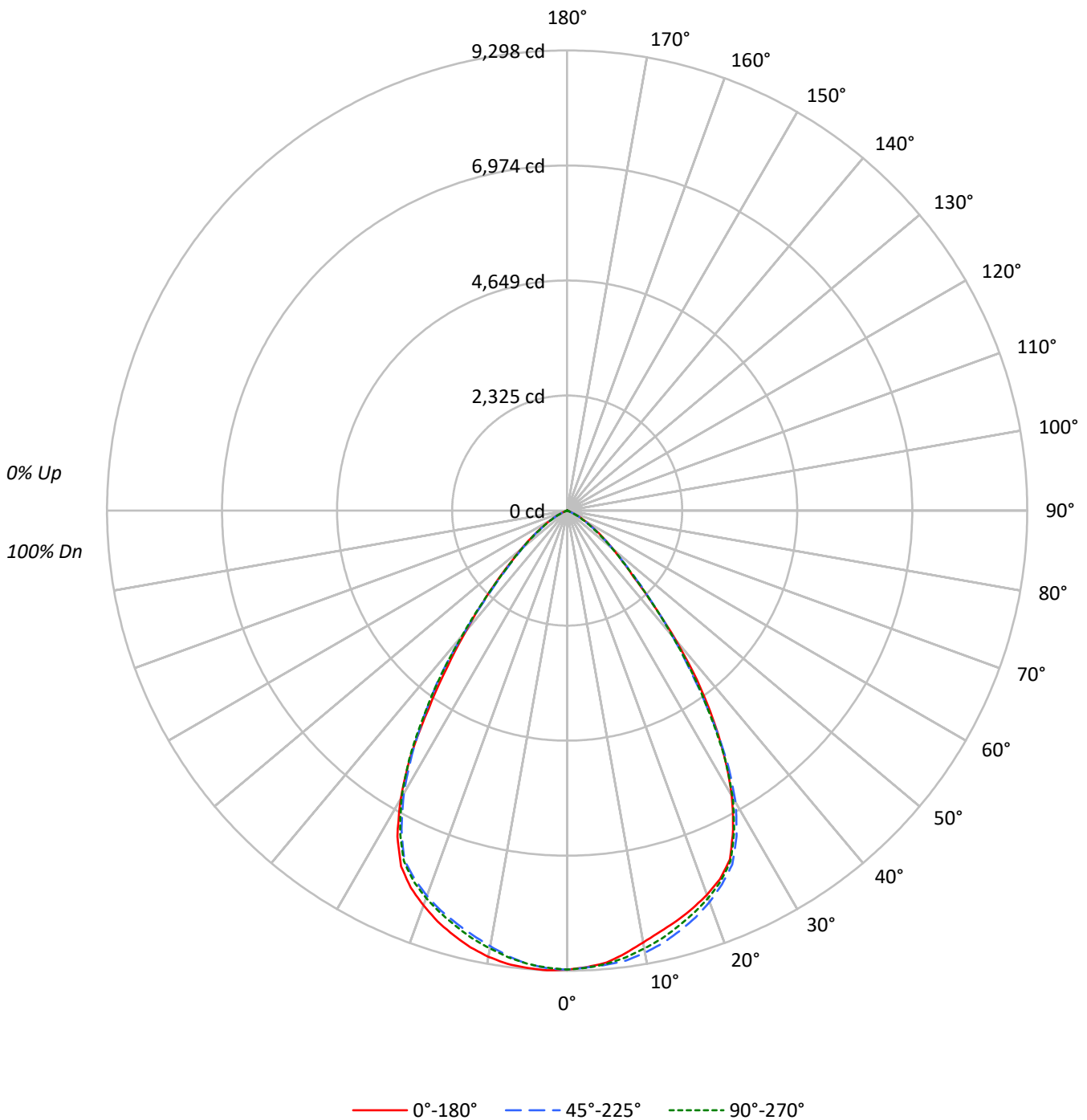
Input Watts (W): 158.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	285998	285998	285998
5°	283790	284583	287167
10°	277406	281329	286671
15°	273845	277519	283483
20°	271051	273430	278550
25°	264701	265773	270009
30°	236931	238145	239484
35°	193092	189207	183621
40°	136932	133120	128213
45°	83490	84903	86612
50°	57682	56617	57807
55°	39154	36402	37547
60°	25403	22140	23244
65°	13374	10638	11448
70°	3534	3002	2687
75°	608	1215	715
80°	0	0	302
85°	601	601	601



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	872.1	7.0
10°-20°	2456.7	19.8
20°-30°	3542.6	28.6
30°-40°	3111.2	25.1
40°-50°	1573.2	12.7
50°-60°	643.9	5.2
60°-70°	169.3	1.4
70°-80°	11.9	0.1
80°-90°	2.1	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°	6871.3	55.5
0°-40°	9982.5	80.6
0°-60°	12199.6	98.5
0°-90°	12383.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12383.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	9275	9275	9275	9275	9275	
5°	9168	9210	9194	9194	9277	865
15°	8578	8790	8693	8637	8880	2421
25°	7780	7892	7811	7783	7936	3515
35°	5129	5042	5026	5005	4878	3162
45°	1914	2004	1947	1897	1986	1580
55°	728	699	677	675	698	673
65°	183	163	146	144	157	187
75°	5	3	10	3	6	13
85°	2	2	2	1	2	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°	9274.7	9274.7	9274.7	9274.7	9274.7	9274.7	9274.7	9274.7	9274.7
2.5°	9232.0	9277.2	9237.2	9261.0	9244.8	9218.4	9255.1	9238.0	9297.7
5°	9168.1	9222.7	9209.9	9239.7	9193.7	9145.1	9193.7	9197.9	9277.2
7.5°	9022.3	9116.1	9169.8	9205.6	9104.1	9024.8	9082.8	9134.8	9237.2
10°	8859.4	8972.8	9070.0	9125.4	8984.7	8868.8	8937.8	9026.5	9155.3
12.5°	8709.3	8834.7	8949.8	9003.5	8855.1	8724.6	8790.3	8900.3	9038.5
15°	8578.0	8681.2	8790.3	8845.7	8693.1	8569.4	8636.8	8738.3	8879.9
17.5°	8427.9	8525.1	8621.5	8665.0	8523.4	8415.9	8477.3	8564.3	8705.0
20°	8259.9	8343.5	8416.8	8468.0	8332.4	8230.0	8285.5	8366.5	8488.4
22.5°	8062.9	8126.0	8173.8	8219.8	8109.8	8008.3	8056.1	8120.0	8248.8
25°	7779.8	7843.7	7891.5	7943.5	7811.3	7724.4	7783.2	7810.5	7935.8
27.5°	7261.3	7342.3	7413.9	7460.0	7309.1	7234.0	7249.4	7294.6	7427.6
30°	6654.1	6693.4	6802.5	6816.2	6688.2	6557.8	6599.6	6647.3	6725.8
32.5°	5932.7	5954.9	6018.0	6024.8	5929.3	5828.7	5829.5	5808.2	5887.5
35°	5129.4	5079.1	5041.6	5067.1	5026.2	5044.1	5004.9	4906.8	4877.8
37.5°	4299.6	4267.2	4102.7	4089.9	4185.4	4243.4	4205.0	3986.7	3971.3
40°	3401.7	3365.0	3303.6	3294.2	3307.0	3340.3	3269.5	3204.7	3185.1
42.5°	2545.5	2565.1	2584.7	2602.6	2566.0	2494.3	2490.9	2479.0	2525.0
45°	1914.5	1956.2	2004.0	2027.9	1946.9	1891.4	1897.4	1923.8	1986.1
47.5°	1513.7	1522.2	1540.1	1560.6	1512.8	1442.0	1460.8	1503.4	1530.7
50°	1202.4	1210.9	1205.8	1203.3	1180.2	1137.6	1164.0	1195.6	1205.0
52.5°	948.3	937.2	927.8	921.8	907.3	890.3	895.4	921.8	936.3
55°	728.3	719.7	699.3	690.7	677.1	672.8	675.4	695.9	698.4
57.5°	547.5	535.5	515.1	498.9	499.7	492.9	496.3	510.8	518.5
60°	411.9	404.2	368.4	371.0	359.0	357.3	365.0	373.5	376.9
62.5°	284.8	287.4	260.1	256.7	250.7	251.6	256.7	263.5	264.4
65°	183.3	172.3	162.9	156.1	145.8	140.7	144.1	162.9	156.9
67.5°	71.6	75.9	61.4	71.6	66.5	56.3	64.8	72.5	69.1
70°	39.2	40.1	33.3	31.6	33.3	30.7	35.0	39.2	29.8
72.5°	24.7	24.7	17.9	17.9	23.0	15.3	17.9	28.1	22.2
75°	5.1	6.0	3.4	1.7	10.2	5.1	3.4	10.2	6.0
77.5°	0.0	6.0	0.0	0.0	0.0	0.0	1.7	1.7	1.7
80°	0.0	0.0	0.0	2.6	0.0	0.0	0.0	1.7	1.7
82.5°	0.0	1.7	0.0	0.0	0.0	0.0	0.0	1.7	0.0
85°	1.7	6.8	1.7	0.0	1.7	1.7	0.9	5.1	1.7
87.5°	11.1	5.1	0.9	5.1	4.3	5.1	6.0	5.1	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)