

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: P247787

Luminaire Tested: **LSR8B150D010 EC8B150935 8LBW0LI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247787
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-69)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B150D010 EC8B150935 8LBW0LI
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
90 CRI 3500 CCT WITH SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14607.0 lumens
Efficiency: N/A
Efficacy: 92.2 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

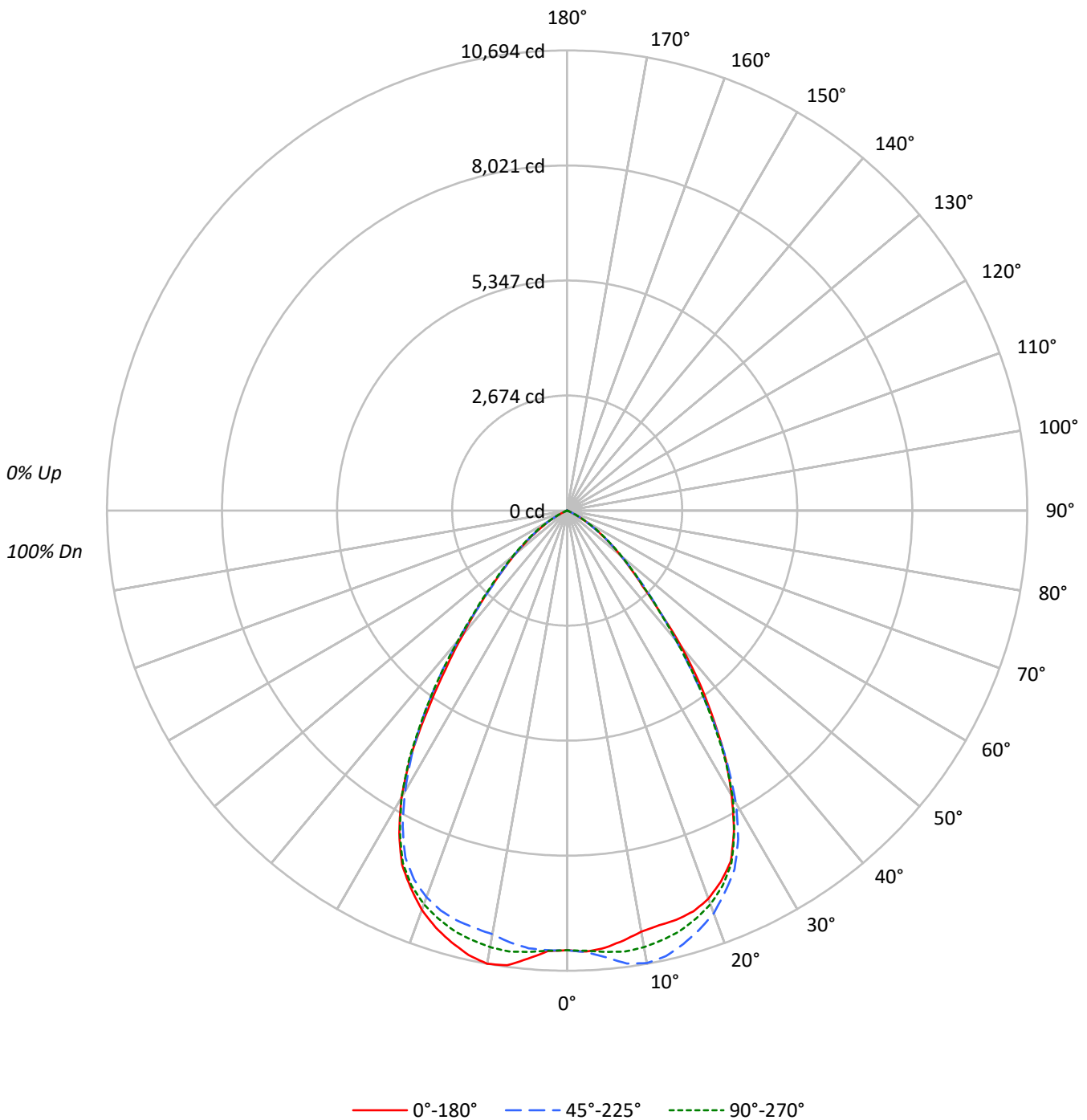
Input Watts (W): 158.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P247787

CATALOG NUMBER: LSR8B150D010 EC8B150935 8LBW0LI

Luminous Intensity Polar Plot





TEST NUMBER: P247787

CATALOG NUMBER: LSR8B150D010 EC8B150935 8LBW0LI

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	99	100	98	96	96	95	94	92					92			
2	106	100	96	92	104	99	94	91	95	92	89	92	89	87	90	87	85	83					83			
3	100	92	86	82	97	91	85	81	88	84	80	86	82	79	83	80	77	76					76			
4	93	85	78	73	92	84	78	73	81	76	72	79	75	71	77	74	70	69					69			
5	88	78	71	66	86	77	71	66	75	70	65	73	69	65	72	68	64	63					63			
6	82	72	65	60	81	71	65	60	70	64	60	68	63	59	67	62	59	57					57			
7	78	67	60	55	76	66	60	55	65	59	55	64	58	54	62	58	54	53					53			
8	73	62	55	51	72	62	55	51	60	55	50	59	54	50	58	54	50	48					48			
9	69	58	51	47	68	58	51	47	57	51	47	56	50	46	55	50	46	45					45			
10	65	54	48	43	64	54	48	43	53	47	43	52	47	43	51	46	43	41					41			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	315024	315024	315024
5°	315673	318657	323566
10°	311126	322583	334863
15°	314267	322925	331554
20°	315066	319460	323966
25°	306132	307435	309061
30°	272274	273851	274097
35°	223618	218803	212189
40°	165766	159172	152104
45°	107771	110410	106842
50°	77807	79160	75763
55°	51853	53364	48461
60°	29085	31398	27506
65°	9150	11390	9580
70°	2380	2768	2227
75°	1525	1120	1823
80°	302	906	0
85°	3326	920	1203



TEST NUMBER: P247787

CATALOG NUMBER: LSR8B150D010 EC8B150935 8LBWOLI

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	984.5	6.7
10°-20°	2851.3	19.5
20°-30°	4089.8	28.0
30°-40°	3609.0	24.7
40°-50°	1998.2	13.7
50°-60°	880.6	6.0
60°-70°	177.9	1.2
70°-80°	13.3	0.1
80°-90°	2.4	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°	7925.5	54.3
0°-40°	11534.5	79.0
0°-60°	14413.3	98.7
0°-90°	14607.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	14607.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	10216	10216	10216	10216	10216	
5°	10198	10422	10294	10211	10453	964
15°	9844	10430	10115	9868	10386	2777
25°	8998	9200	9036	8900	9084	4064
35°	5940	5855	5812	5817	5637	3685
45°	2471	2576	2532	2437	2450	2013
55°	964	960	993	941	901	884
65°	125	135	156	142	131	173
75°	13	13	9	10	15	12
85°	9	5	3	8	3	4
90°	0	0	0	0	0	



TEST NUMBER: P247787

CATALOG NUMBER: LSR8B150D010 EC8B150935 8LBW0LI

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	10216.0	10216.0	10216.0	10216.0	10216.0	10216.0	10216.0	10216.0	10216.0
2.5°	10258.7	10216.0	10272.3	10237.4	10239.9	10187.1	10228.8	10268.9	10246.7
5°	10198.1	10237.4	10422.4	10417.3	10294.5	10135.0	10210.9	10393.4	10453.1
7.5°	10072.8	10214.3	10616.0	10652.7	10337.1	10001.2	10124.8	10505.1	10656.9
10°	9936.3	10140.2	10679.9	10751.6	10302.2	9859.6	9999.4	10478.7	10694.4
12.5°	9870.7	10067.7	10605.8	10674.8	10222.0	9791.4	9932.9	10378.1	10578.5
15°	9844.2	9992.6	10430.1	10493.2	10115.4	9753.0	9868.1	10232.2	10385.7
17.5°	9764.1	9866.4	10212.6	10252.7	9946.6	9659.2	9749.6	10028.4	10162.3
20°	9601.2	9669.4	9960.2	9981.5	9735.1	9491.2	9561.1	9781.1	9872.4
22.5°	9332.6	9377.8	9592.7	9600.4	9439.2	9227.7	9285.7	9457.9	9492.1
25°	8997.5	9001.7	9199.6	9162.9	9035.8	8839.7	8900.2	9047.8	9083.6
27.5°	8394.6	8409.1	8609.4	8560.8	8410.8	8240.2	8277.7	8412.5	8448.3
30°	7646.7	7727.7	7843.7	7819.8	7691.0	7519.6	7527.3	7659.5	7697.9
32.5°	6860.4	6836.6	6896.3	6878.3	6811.8	6676.2	6721.4	6755.6	6764.9
35°	5940.3	5920.7	5855.0	5772.3	5812.4	5865.3	5816.7	5741.6	5636.7
37.5°	5056.0	4946.0	4818.1	4732.0	4874.4	4929.8	4882.0	4719.2	4634.7
40°	4118.0	4002.0	3932.9	3911.6	3954.2	3995.2	3941.4	3862.1	3778.6
42.5°	3175.7	3174.8	3191.9	3187.6	3158.6	3099.8	3057.1	3091.2	3077.6
45°	2471.3	2509.7	2576.2	2587.3	2531.8	2445.7	2437.2	2469.6	2450.0
47.5°	2011.7	2025.3	2049.2	2083.3	2051.7	2008.2	1986.1	1996.3	1978.4
50°	1621.9	1625.4	1636.4	1662.0	1650.1	1620.2	1598.9	1586.1	1579.3
52.5°	1274.0	1266.3	1274.9	1283.4	1299.6	1280.0	1262.1	1234.8	1213.5
55°	964.5	958.5	960.2	967.0	992.6	970.4	941.4	923.5	901.4
57.5°	700.1	680.5	684.8	707.8	731.7	722.3	696.7	667.7	640.4
60°	471.6	467.3	466.5	491.2	509.1	505.7	476.7	455.4	446.0
62.5°	278.9	276.3	283.1	294.2	315.5	300.2	280.6	269.5	266.1
65°	125.4	131.3	134.7	143.3	156.1	152.6	141.6	129.6	131.3
67.5°	54.6	41.8	46.9	52.9	49.5	52.0	46.0	48.6	46.9
70°	26.4	28.1	26.4	33.3	30.7	32.4	26.4	31.6	24.7
72.5°	18.8	16.2	20.5	23.9	20.5	23.9	21.3	16.2	12.8
75°	12.8	7.7	12.8	7.7	9.4	13.6	10.2	13.6	15.3
77.5°	1.7	6.0	2.6	3.4	1.7	4.3	4.3	2.6	7.7
80°	1.7	2.6	1.7	3.4	5.1	0.9	3.4	7.7	0.0
82.5°	6.0	0.0	0.9	0.0	0.9	1.7	0.0	1.7	0.0
85°	9.4	2.6	5.1	11.9	2.6	5.1	7.7	3.4	3.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.9	0.0	2.6	5.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)