

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: P248102

Luminaire Tested: **LSR8B150D010 EC8B150850 8LBW0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248102
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 EC8B150850 8LBW0WH
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 5000 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16904.0 lumens
Efficiency: N/A
Efficacy: 106.6 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

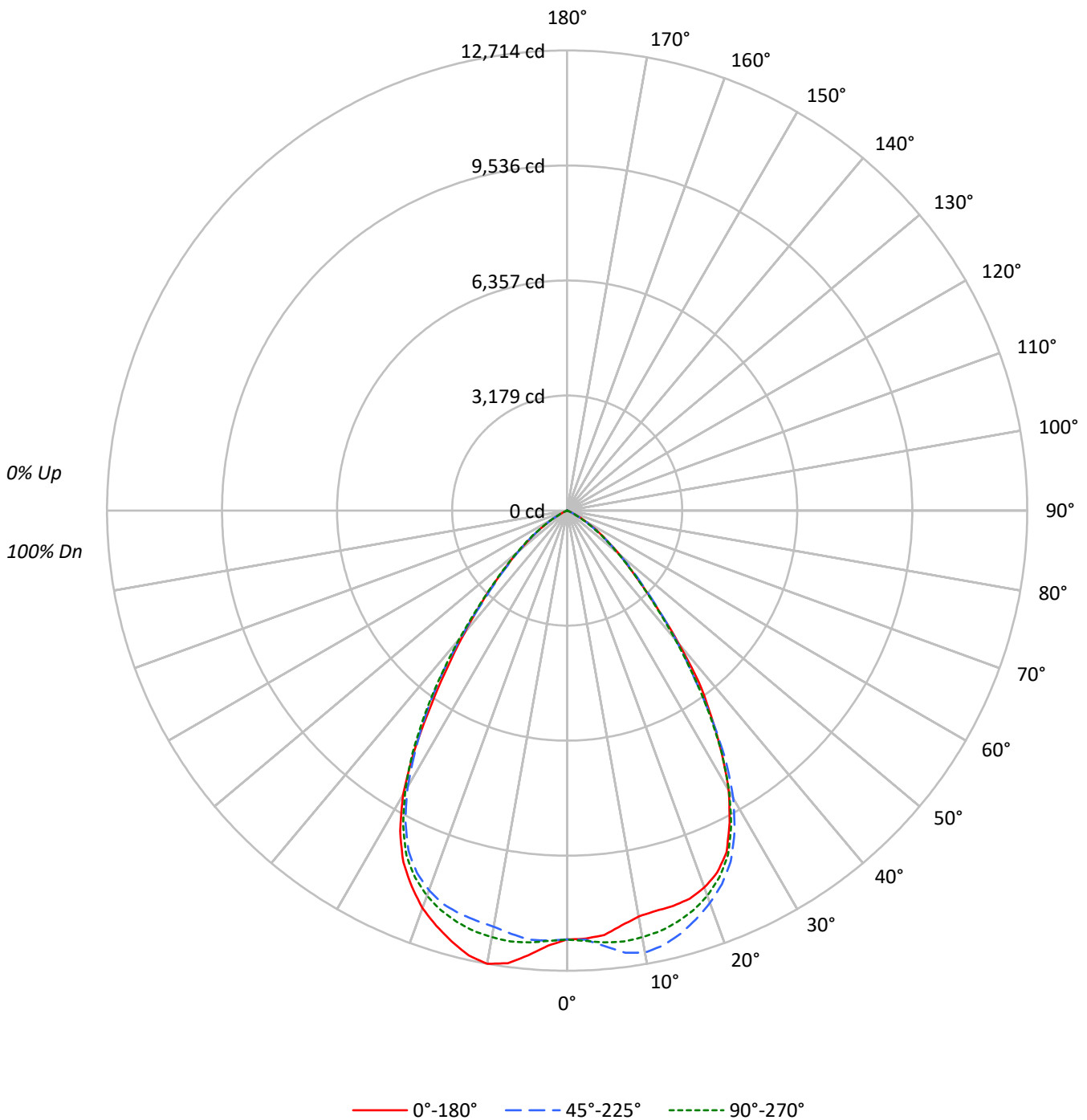
Input Watts (W): 158.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P248102

CATALOG NUMBER: LSR8B150D010 EC8B150850 8LBW0WH

Luminous Intensity Polar Plot





TEST NUMBER: P248102

CATALOG NUMBER: LSR8B150D010 EC8B150850 8LBW0WH

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	81	88	84	80	86	82	79	83	80	78	76					76			
4	94	85	79	74	92	84	78	73	82	76	72	79	75	72	78	74	71	69					69			
5	88	78	72	67	86	77	71	66	76	70	66	74	69	65	72	68	65	63					63			
6	83	72	66	61	81	72	65	61	70	64	60	69	64	60	67	63	59	58					58			
7	78	67	60	56	76	67	60	55	65	59	55	64	59	55	63	58	54	53					53			
8	73	63	56	51	72	62	55	51	61	55	51	60	54	50	59	54	50	49					49			
9	69	58	52	47	68	58	51	47	57	51	47	56	51	47	55	50	47	45					45			
10	65	55	48	44	64	54	48	44	53	47	43	52	47	43	52	47	43	42					42			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	365426	365426	365426
5°	364345	370709	381776
10°	356506	374773	398117
15°	360985	375632	393449
20°	363682	371594	383624
25°	354371	357678	364534
30°	317875	318705	322526
35°	261142	257291	246155
40°	192933	186694	177154
45°	127962	126990	125088
50°	90525	86586	84547
55°	60498	55052	52057
60°	34043	29547	26920
65°	13156	9456	7836
70°	3832	2191	1830
75°	1084	608	727
80°	0	0	0
85°	708	0	0



TEST NUMBER: P248102

CATALOG NUMBER: LSR8B150D010 EC8B150850 8LBW0WH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1146.3	6.8
10°-20°	3324.4	19.7
20°-30°	4774.0	28.2
30°-40°	4220.0	25.0
40°-50°	2310.0	13.7
50°-60°	951.0	5.6
60°-70°	170.4	1.0
70°-80°	7.4	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°	9244.7	54.7
0°-40°	13464.7	79.7
0°-60°	16725.6	98.9
0°-90°	16904.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	16904.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	11850	11850	11850	11850	11850	
5°	11770	12086	11976	11903	12334	###
15°	11308	12107	11766	11523	12324	3194
25°	10415	10697	10512	10374	10714	4711
35°	6937	6875	6835	6742	6539	4303
45°	2934	3020	2912	2787	2868	2362
55°	1125	1073	1024	991	968	1020
65°	180	141	130	104	107	210
75°	9	4	5	6	6	14
85°	2	2	0	6	0	1
90°	0	0	0	0	0	



TEST NUMBER: P248102

CATALOG NUMBER: LSR8B150D010 EC8B150850 8LBW0WH

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	11850.5	11850.5	11850.5	11850.5	11850.5	11850.5	11850.5	11850.5	11850.5
2.5°	11835.3	11856.6	11866.7	11920.4	11902.1	11876.8	11891.0	11934.5	12028.7
5°	11770.5	11883.9	12086.5	12155.4	11976.1	11820.1	11903.1	12141.2	12333.6
7.5°	11556.8	11842.4	12321.5	12425.8	12010.5	11652.0	11796.8	12310.3	12614.2
10°	11385.6	11740.1	12398.4	12553.4	11969.0	11505.1	11674.2	12302.2	12714.5
12.5°	11327.8	11655.0	12301.2	12476.4	11899.1	11453.4	11602.3	12183.7	12586.8
15°	11307.6	11569.9	12106.7	12247.5	11766.4	11402.8	11523.3	11990.3	12324.5
17.5°	11244.8	11440.3	11840.4	11954.8	11584.1	11302.5	11395.7	11758.3	12026.7
20°	11082.7	11248.8	11536.5	11616.5	11323.8	11103.0	11162.7	11435.2	11690.4
22.5°	10829.5	10936.9	11169.8	11208.3	10976.4	10800.1	10837.6	11041.2	11227.6
25°	10415.3	10490.2	10696.8	10707.0	10512.5	10358.5	10373.7	10543.9	10714.0
27.5°	9718.4	9860.2	10012.1	10055.7	9811.6	9631.3	9677.9	9791.3	9990.9
30°	8927.4	9031.7	9180.6	9147.2	8950.7	8788.6	8807.8	8909.1	9058.0
32.5°	7940.8	8051.2	8127.2	8058.3	7959.1	7814.2	7770.7	7814.2	7854.7
35°	6937.1	6974.6	6875.3	6835.8	6834.8	6790.2	6741.6	6609.9	6539.0
37.5°	5978.9	5861.4	5683.2	5607.2	5694.3	5802.7	5656.8	5484.6	5395.5
40°	4792.9	4795.9	4684.5	4605.5	4637.9	4601.4	4537.6	4427.2	4400.9
42.5°	3746.6	3757.7	3793.2	3748.6	3670.6	3552.1	3516.7	3521.7	3599.7
45°	2934.3	2956.5	3020.4	3014.3	2912.0	2837.0	2787.4	2857.3	2868.4
47.5°	2333.6	2365.0	2391.4	2389.3	2310.3	2235.4	2213.1	2226.3	2253.6
50°	1887.0	1883.9	1863.7	1837.3	1804.9	1789.7	1764.4	1762.4	1762.4
52.5°	1453.5	1458.5	1418.0	1420.0	1404.8	1362.3	1351.2	1328.9	1328.9
55°	1125.3	1105.0	1072.6	1041.2	1024.0	994.6	990.6	967.3	968.3
57.5°	799.1	780.9	742.4	723.2	710.0	701.9	684.7	666.5	658.4
60°	552.0	536.8	515.5	496.3	479.1	475.0	458.8	440.6	436.5
62.5°	333.2	329.2	291.7	284.6	271.4	265.4	254.2	242.1	243.1
65°	180.3	154.0	140.8	132.7	129.6	113.4	104.3	102.3	107.4
67.5°	48.6	48.6	39.5	37.5	37.5	27.3	31.4	30.4	39.5
70°	42.5	30.4	26.3	21.3	24.3	14.2	26.3	21.3	20.3
72.5°	22.3	12.2	10.1	10.1	11.1	7.1	16.2	9.1	7.1
75°	9.1	6.1	4.1	2.0	5.1	5.1	6.1	2.0	6.1
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°	2.0	3.0	2.0	0.0	0.0	0.0	6.1	0.0	0.0
87.5°	0.0	2.0	1.0	0.0	0.0	0.0	2.0	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)