

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: P247805

Luminaire Tested: **LSR8B150D010 EC8B150830 8LBNOLI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247805
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-89)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B150D010 EC8B150830 8LBN0LI
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 3000 CCT WITH SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14430.0 lumens
Efficiency: N/A
Efficacy: 91.0 lumens/watt
Spacing Criteria (0/90/45): 0.55 / 0.55 / 0.63
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

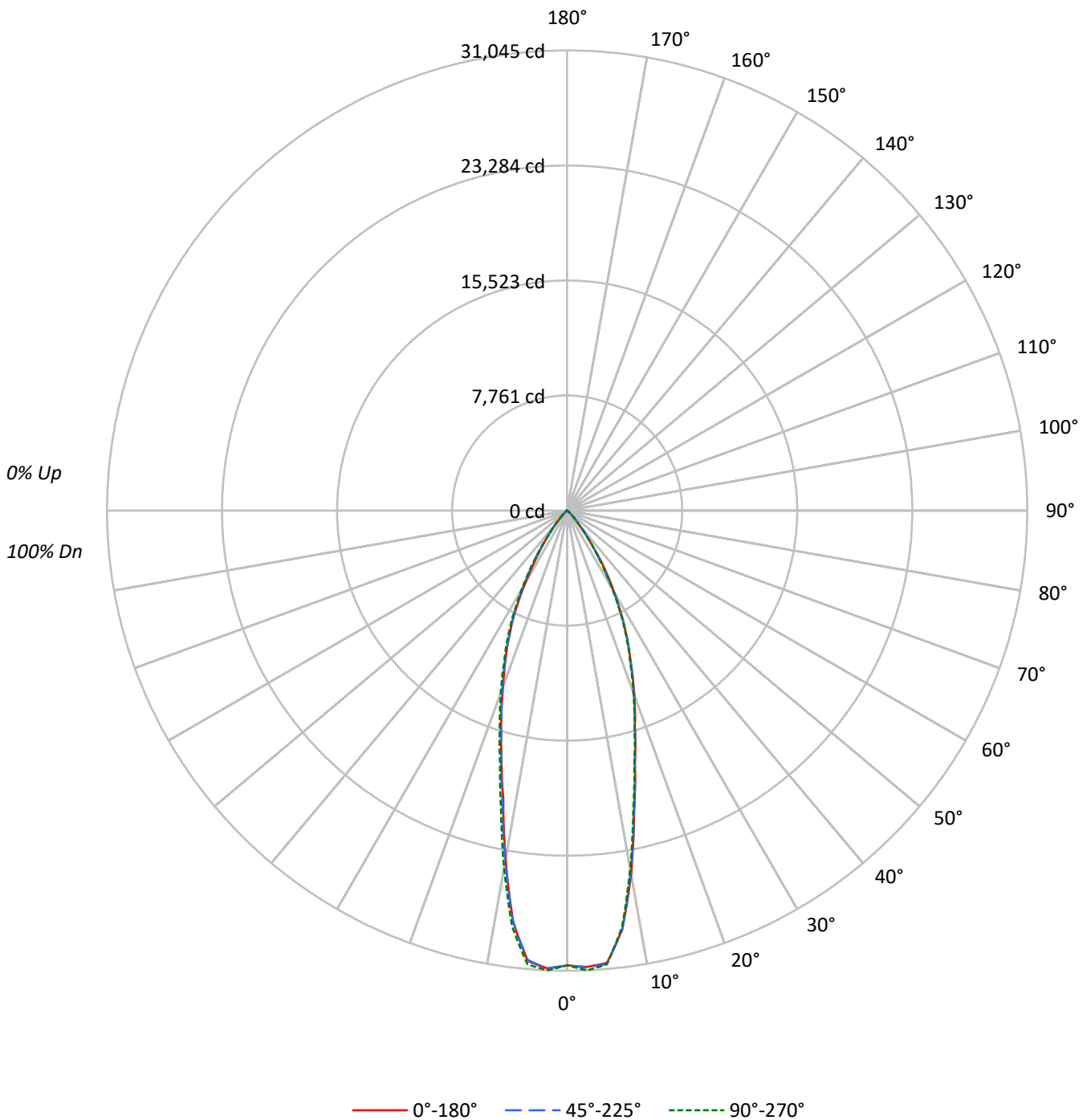
Input Watts (W): 158.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P247805

CATALOG NUMBER: LSR8B150D010 EC8B150830 8LBN0LI

Luminous Intensity Polar Plot





TEST NUMBER: P247805

CATALOG NUMBER: LSR8B150D010 EC8B150830 8LBN0LI

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	114	112	109	107	112	109	107	106	105	104	102	102	101	99	98	97	97	95					95			
2	109	105	101	98	107	103	100	97	100	97	95	97	95	93	94	93	91	90					90			
3	105	99	95	91	103	98	94	90	95	92	89	93	90	88	90	88	86	85					85			
4	100	94	89	85	98	92	88	84	90	87	83	88	85	83	87	84	82	80					80			
5	96	89	83	80	94	88	83	79	86	82	79	84	81	78	83	80	77	76					76			
6	92	84	79	75	91	83	78	75	82	78	74	81	77	74	79	76	73	72					72			
7	88	80	75	71	87	79	74	71	78	74	71	77	73	70	76	73	70	69					69			
8	85	76	71	67	84	76	71	67	75	70	67	74	70	67	73	69	67	65					65			
9	81	73	68	64	80	72	67	64	72	67	64	71	67	64	70	66	63	62					62			
10	78	70	65	61	77	69	64	61	69	64	61	68	64	61	67	63	61	60					60			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	946080	946080	946080
5°	948595	951093	944335
10°	778905	766590	747499
15°	564386	558646	545781
20°	435397	429464	415298
25°	326944	323052	312287
30°	223105	216873	199925
35°	126116	120721	110516
40°	50748	52761	50784
45°	20924	21469	19877
50°	6366	6275	4567
55°	1812	1344	930
60°	1425	1307	358
65°	635	1335	277
70°	343	694	0
75°	1942	1144	798
80°	1545	675	1882
85°	2052	3750	5095



TEST NUMBER: P247805

CATALOG NUMBER: LSR8B150D010 EC8B150830 8LBN0LI

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2711.9	18.8
10°-20°	4914.3	34.1
20°-30°	4281.9	29.7
30°-40°	2039.5	14.1
40°-50°	423.8	2.9
50°-60°	33.7	0.2
60°-70°	13.0	0.1
70°-80°	5.8	0.0
80°-90°	6.0	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°	11908.1	82.5
0°-40°	13947.7	96.7
0°-60°	14405.1	99.8
0°-90°	14430.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	14430.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	30681	30681	30681	30681	30681	
5°	30645	30694	30726	30437	30508	###
15°	17679	17681	17499	17137	17096	4993
25°	9609	9600	9495	9209	9178	4368
35°	3350	3237	3207	3044	2936	2145
45°	480	531	492	441	456	424
55°	34	26	25	23	17	37
65°	9	14	18	6	4	13
75°	16	11	10	12	7	8
85°	6	6	11	7	14	5
90°	0	0	0	0	0	



TEST NUMBER: P247805

CATALOG NUMBER: LSR8B150D010 EC8B150830 8LBN0LI

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	30680.7	30680.7	30680.7	30680.7	30680.7	30680.7	30680.7	30680.7	30680.7
2.5°	30814.4	30820.2	30868.2	31005.7	31045.2	31014.4	30910.6	30873.0	30910.6
5°	30645.2	30625.0	30694.2	30796.1	30725.9	30600.0	30437.4	30399.9	30507.6
7.5°	28475.8	28462.3	28527.7	28520.0	28334.4	28096.9	27961.3	27854.6	27946.9
10°	24875.6	24755.4	24712.1	24788.1	24482.3	24154.4	23959.2	24031.3	23872.6
12.5°	20822.4	20806.1	20883.0	20789.7	20612.8	20411.8	20172.4	20043.5	19928.1
15°	17679.0	17722.2	17680.9	17642.4	17499.2	17348.2	17136.6	17047.2	17096.2
17.5°	15211.5	15199.0	15155.7	15220.2	15109.6	14893.2	14707.6	14739.4	14793.2
20°	13268.1	13215.2	13113.3	13140.2	13087.3	12919.1	12749.8	12636.4	12655.6
22.5°	11265.1	11311.3	11298.8	11219.0	11136.3	11013.2	10930.5	10782.4	10851.6
25°	9609.2	9616.9	9599.6	9588.1	9494.8	9376.5	9209.2	9173.6	9178.4
27.5°	7914.9	7951.4	7937.0	7888.0	7793.7	7694.7	7590.9	7509.1	7501.4
30°	6265.8	6317.7	6214.8	6144.6	6090.8	6073.4	5899.4	5777.3	5614.8
32.5°	4848.4	4771.4	4443.5	4444.5	4549.3	4590.7	4424.3	4147.4	4102.2
35°	3350.2	3336.7	3236.7	3206.0	3206.9	3166.5	3044.4	2936.7	2935.8
37.5°	2100.1	2150.1	2205.9	2193.4	2070.3	1945.3	1886.7	1950.1	1968.4
40°	1260.7	1326.0	1393.4	1401.0	1310.7	1166.4	1148.1	1206.8	1261.6
42.5°	789.5	817.4	862.6	871.2	806.8	753.9	720.2	762.5	762.5
45°	479.8	505.8	530.8	532.7	492.3	448.1	441.4	457.7	455.8
47.5°	282.7	283.7	293.3	286.6	273.1	251.9	243.3	251.9	253.9
50°	132.7	129.8	134.6	147.1	130.8	110.6	112.5	105.8	95.2
52.5°	31.7	28.8	34.6	37.5	36.5	38.5	36.5	36.5	27.9
55°	33.7	21.2	26.0	26.9	25.0	26.9	23.1	15.4	17.3
57.5°	23.1	24.0	24.0	26.9	23.1	28.8	24.0	17.3	19.2
60°	23.1	16.3	15.4	26.0	21.2	14.4	16.3	22.1	5.8
62.5°	17.3	16.3	18.3	26.0	18.3	21.2	16.3	26.0	17.3
65°	8.7	14.4	14.4	14.4	18.3	16.3	5.8	11.5	3.8
67.5°	12.5	6.7	5.8	12.5	15.4	10.6	4.8	4.8	8.7
70°	3.8	5.8	2.9	6.7	7.7	6.7	4.8	1.0	0.0
72.5°	6.7	2.9	6.7	5.8	9.6	6.7	5.8	4.8	3.8
75°	16.3	12.5	10.6	11.5	9.6	5.8	11.5	11.5	6.7
77.5°	0.0	0.0	1.9	0.0	0.0	0.0	1.0	0.0	0.0
80°	8.7	6.7	6.7	6.7	3.8	5.8	2.9	1.0	10.6
82.5°	8.7	10.6	10.6	4.8	12.5	7.7	6.7	1.9	10.6
85°	5.8	10.6	5.8	4.8	10.6	8.7	6.7	2.9	14.4
87.5°	0.0	5.8	5.8	3.8	5.8	1.9	4.8	2.9	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)