

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: P247769

Luminaire Tested: **LD8B150D010 ER8B150830 8LBW0LI**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247769  
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: LD8B150D010 ER8B150830 8LBW0LI  
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
80 CRI 3000 CCT WITH SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 16472.0 lumens  
Efficiency: N/A  
Efficacy: 103.9 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

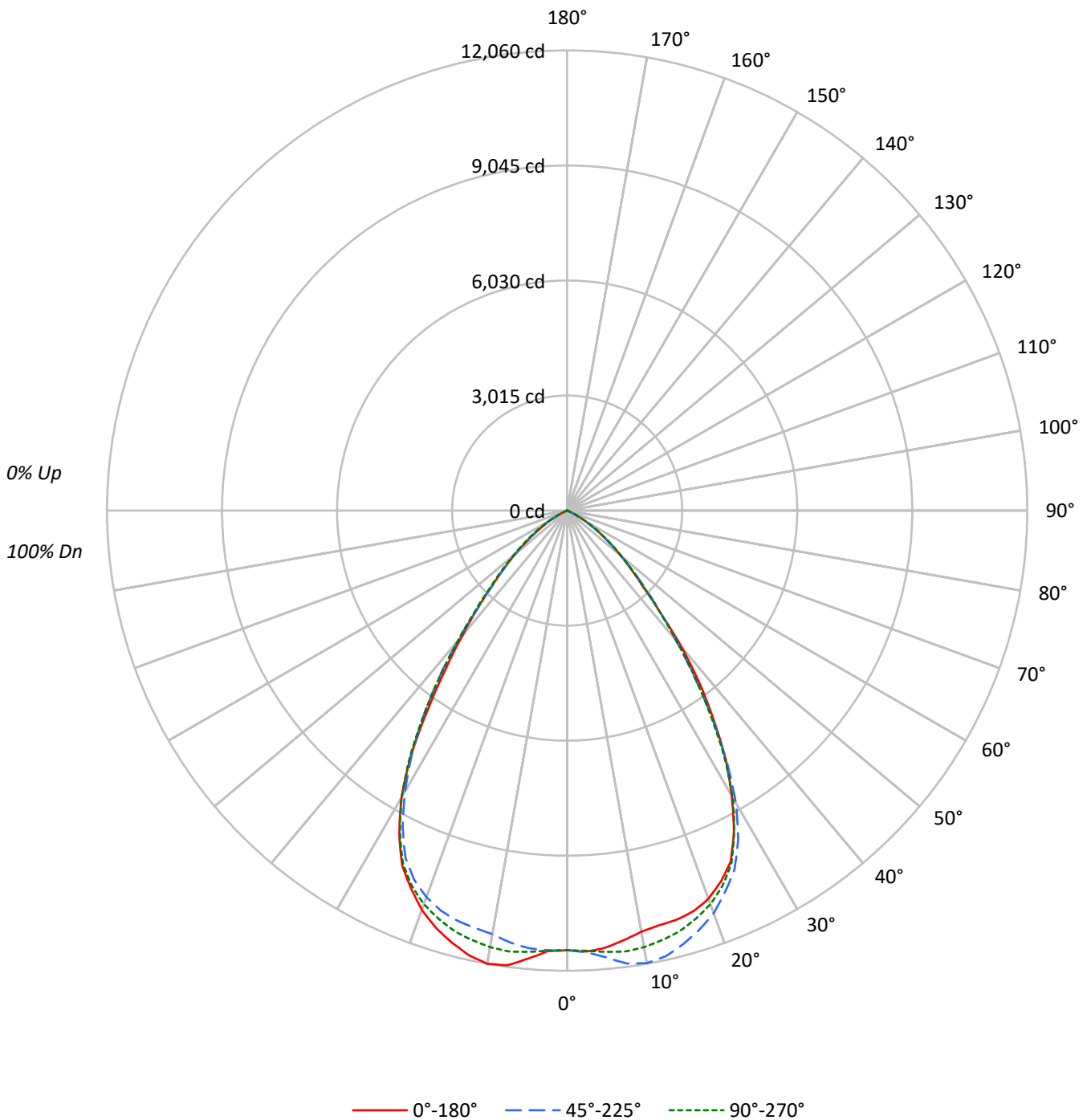
Input Watts (W): 158.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P247769

CATALOG NUMBER: LD8B150D010 ER8B150830 8LBW0LI

### Luminous Intensity Polar Plot





TEST NUMBER: P247769

CATALOG NUMBER: LD8B150D010 ER8B150830 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°	355247	355247	355247
5°	355978	359343	364881
10°	350851	363767	377620
15°	354393	364155	373889
20°	355295	360250	365330
25°	345215	346689	348523
30°	307037	308817	309091
35°	252171	246739	239282
40°	186927	179496	171522
45°	121530	124508	120483
50°	87742	89268	85440
55°	58471	60175	54649
60°	32798	35406	31015
65°	10317	12842	10806
70°	2687	3120	2515
75°	1716	1263	2061
80°	337	1030	0
85°	3750	1026	1344



TEST NUMBER: P247769

CATALOG NUMBER: LD8B150D010 ER8B150830 8LBW0LI

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1110.2	6.7
10°-20°	3215.3	19.5
20°-30°	4612.0	28.0
30°-40°	4069.8	24.7
40°-50°	2253.4	13.7
50°-60°	993.0	6.0
60°-70°	200.6	1.2
70°-80°	15.0	0.1
80°-90°	2.8	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°	8937.5	54.3
0°-40°	13007.2	79.0
0°-60°	16253.6	98.7
0°-90°	16472.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	16472.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	11520	11520	11520	11520	11520	
5°	11500	11753	11609	11515	11788	###
15°	11101	11762	11407	11128	11712	3132
25°	10146	10374	10190	10037	10243	4583
35°	6699	6603	6554	6559	6356	4155
45°	2787	2905	2855	2748	2763	2270
55°	1088	1083	1119	1062	1016	997
65°	141	152	176	160	148	195
75°	14	14	11	12	17	14
85°	11	6	3	9	4	5
90°	0	0	0	0	0	



TEST NUMBER: P247769

CATALOG NUMBER: LD8B150D010 ER8B150830 8LBW0LI

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	11520.4	11520.4	11520.4	11520.4	11520.4	11520.4	11520.4	11520.4	11520.4
2.5°	11568.5	11520.4	11583.9	11544.5	11547.3	11487.7	11534.8	11580.0	11555.0
5°	11500.2	11544.5	11753.1	11747.4	11608.9	11429.1	11514.6	11720.4	11787.8
7.5°	11358.9	11518.5	11971.4	12012.8	11657.0	11278.1	11417.5	11846.4	12017.6
10°	11205.0	11434.8	12043.5	12124.3	11617.5	11118.5	11276.2	11816.6	12059.9
12.5°	11131.0	11353.1	11959.9	12037.8	11527.1	11041.5	11201.2	11703.1	11929.1
15°	11101.1	11268.5	11761.8	11832.9	11406.9	10998.2	11128.1	11538.7	11711.8
17.5°	11010.7	11126.1	11516.6	11561.8	11216.5	10892.5	10994.4	11308.9	11459.8
20°	10827.1	10904.0	11231.9	11256.0	10978.1	10703.0	10781.9	11030.0	11132.9
22.5°	10524.2	10575.1	10817.5	10826.1	10644.4	10405.9	10471.3	10665.5	10704.0
25°	10146.2	10151.0	10374.1	10332.8	10189.5	9968.3	10036.6	10203.0	10243.4
27.5°	9466.4	9482.7	9708.7	9653.9	9484.6	9292.3	9334.6	9486.6	9526.9
30°	8623.0	8714.4	8845.1	8818.2	8673.0	8479.7	8488.4	8637.4	8680.7
32.5°	7736.4	7709.4	7776.8	7756.6	7681.6	7528.7	7579.6	7618.1	7628.7
35°	6698.8	6676.6	6602.6	6509.3	6554.5	6614.1	6559.3	6474.7	6356.4
37.5°	5701.5	5577.5	5433.3	5336.1	5496.7	5559.2	5505.4	5321.7	5226.5
40°	4643.7	4513.0	4435.1	4411.0	4459.1	4505.3	4444.7	4355.3	4261.0
42.5°	3581.1	3580.2	3599.4	3594.6	3561.9	3495.6	3447.5	3485.9	3470.5
45°	2786.8	2830.1	2905.1	2917.6	2855.1	2758.0	2748.4	2784.9	2762.8
47.5°	2268.5	2283.9	2310.8	2349.3	2313.7	2264.7	2239.7	2251.2	2231.0
50°	1829.0	1832.9	1845.4	1874.2	1860.8	1827.1	1803.1	1788.6	1781.0
52.5°	1436.7	1428.0	1437.6	1447.3	1465.5	1443.4	1423.2	1392.5	1368.4
55°	1087.6	1080.9	1082.8	1090.5	1119.3	1094.3	1061.6	1041.5	1016.5
57.5°	789.5	767.4	772.2	798.2	825.1	814.5	785.7	753.0	722.2
60°	531.8	527.0	526.0	553.9	574.1	570.3	537.6	513.5	502.9
62.5°	314.5	311.6	319.3	331.8	355.8	338.5	316.4	303.9	300.0
65°	141.4	148.1	151.9	161.6	176.0	172.1	159.6	146.2	148.1
67.5°	61.5	47.1	52.9	59.6	55.8	58.7	51.9	54.8	52.9
70°	29.8	31.7	29.8	37.5	34.6	36.5	29.8	35.6	27.9
72.5°	21.2	18.3	23.1	26.9	23.1	26.9	24.0	18.3	14.4
75°	14.4	8.7	14.4	8.7	10.6	15.4	11.5	15.4	17.3
77.5°	1.9	6.7	2.9	3.8	1.9	4.8	4.8	2.9	8.7
80°	1.9	2.9	1.9	3.8	5.8	1.0	3.8	8.7	0.0
82.5°	6.7	0.0	1.0	0.0	1.0	1.9	0.0	1.9	0.0
85°	10.6	2.9	5.8	13.5	2.9	5.8	8.7	3.8	3.8
87.5°	0.0	0.0	0.0	0.0	0.0	1.0	0.0	2.9	5.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)