

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: P247205

Luminaire Tested: **LD8B120D010 ER8B120840 8LBS0H**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247205  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-83)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD8B120D010 ER8B120840 8LBS0H  
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
80 CRI 4000 CCT WITH SEMI-SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 13403.0 lumens  
Efficiency: N/A  
Efficacy: 113.3 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.22 / 1.23  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

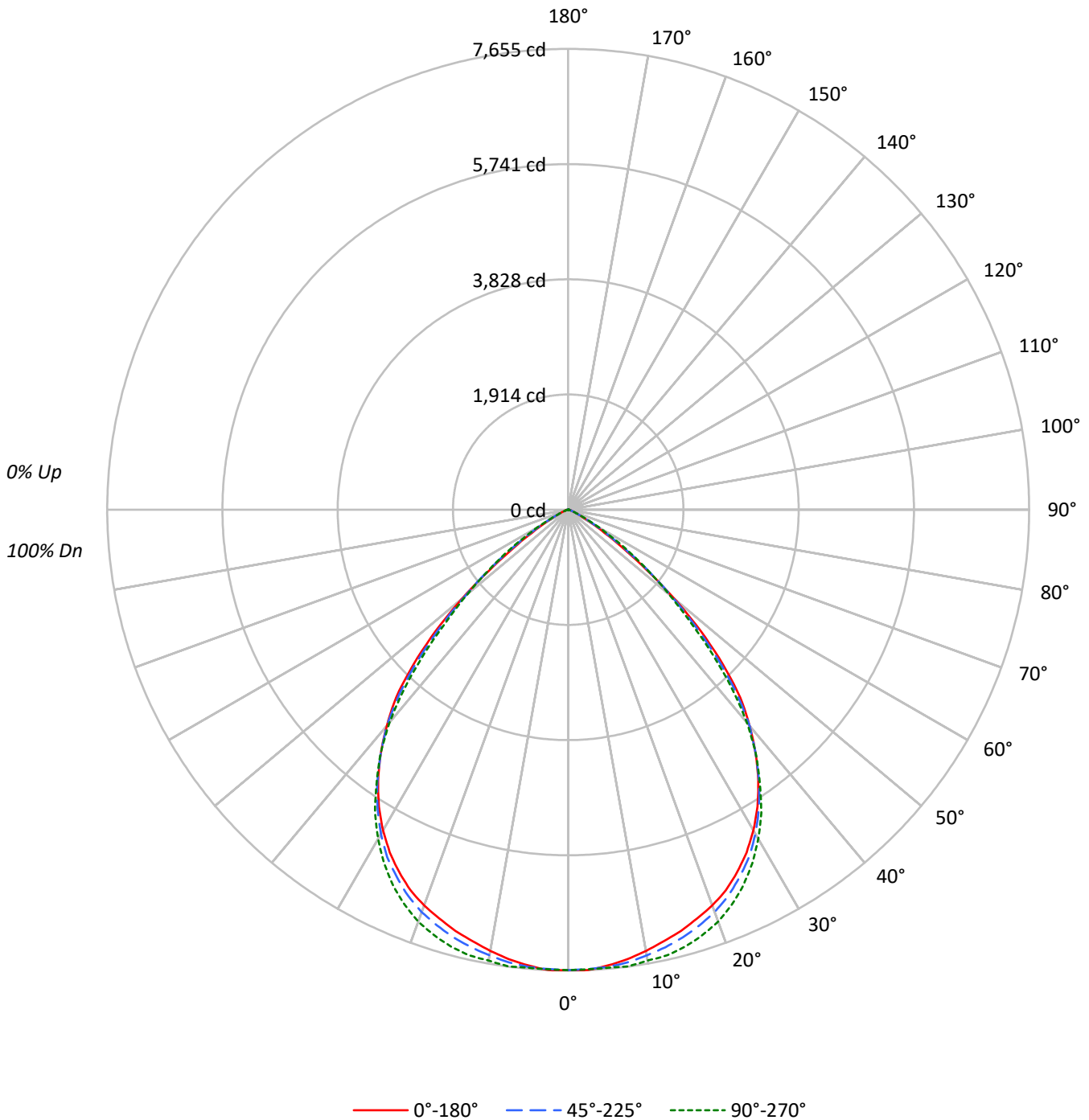
Input Watts (W): 118.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	112	109	106	103	110	107	104	102	103	100	98	99	97	95	95	94	93	91
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	85	83	81
3	98	90	84	79	96	88	83	78	86	81	77	83	79	76	81	77	74	73
4	91	82	75	70	89	81	74	69	78	73	68	76	71	68	74	70	67	65
5	85	75	68	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58
6	79	69	61	56	78	68	61	56	66	60	55	64	59	55	63	58	54	53
7	74	63	56	50	73	62	55	50	61	55	50	60	54	50	58	53	49	48
8	70	58	51	46	68	57	51	46	56	50	45	55	49	45	54	49	45	43
9	65	54	47	42	64	53	46	42	52	46	42	51	46	41	50	45	41	40
10	62	50	43	38	60	50	43	38	49	42	38	48	42	38	47	42	38	36

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	235861	235861	235861
5°	235267	235948	236446
10°	233037	235376	238125
15°	231191	234837	239884
20°	229576	233373	238991
25°	225981	229122	234198
30°	218985	221381	224767
35°	207107	208044	208816
40°	188650	188473	185937
45°	158611	153822	147185
50°	110165	107709	104830
55°	58933	65154	69008
60°	28524	32403	36560
65°	12492	12601	13134
70°	6726	6203	6068
75°	5933	5409	3836
80°	266	1048	0
85°	531	531	2583



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	724.6	5.4
10°-20°	2077.9	15.5
20°-30°	3100.4	23.1
30°-40°	3433.7	25.6
40°-50°	2677.8	20.0
50°-60°	1122.4	8.4
60°-70°	224.8	1.7
70°-80°	35.8	0.3
80°-90°	5.6	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°	5902.9	44.0
0°-40°	9336.6	69.7
0°-60°	13136.8	98.0
0°-90°	13403.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13403.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	7649	7649	7649	7649	7649	
5°	7600	7606	7622	7643	7639	720
15°	7242	7274	7356	7464	7514	2043
25°	6642	6668	6734	6838	6883	3052
35°	5502	5493	5527	5553	5547	3419
45°	3637	3621	3527	3419	3375	2752
55°	1096	1139	1212	1260	1284	1068
65°	171	171	173	186	180	207
75°	50	45	45	35	32	40
85°	2	3	2	0	7	5
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	7648.8	7648.8	7648.8	7648.8	7648.8
2.5°	7654.7	7640.0	7637.1	7645.9	7640.0
5°	7600.5	7606.4	7622.5	7643.0	7638.6
7.5°	7530.3	7540.5	7584.4	7637.1	7650.3
10°	7442.4	7464.4	7517.1	7577.1	7604.9
12.5°	7340.0	7369.3	7445.4	7531.7	7582.9
15°	7241.9	7274.1	7356.1	7464.4	7514.2
17.5°	7119.0	7161.4	7241.9	7359.0	7410.2
20°	6996.0	7034.1	7111.7	7225.8	7282.9
22.5°	6843.8	6871.6	6944.8	7041.4	7100.0
25°	6641.8	6668.2	6734.1	6838.0	6883.3
27.5°	6416.5	6447.2	6507.2	6578.9	6619.9
30°	6150.1	6175.0	6217.4	6281.8	6312.5
32.5°	5850.0	5851.5	5893.9	5942.2	5970.1
35°	5501.7	5492.9	5526.6	5552.9	5547.1
37.5°	5116.8	5118.2	5115.3	5118.2	5124.1
40°	4686.5	4666.0	4682.1	4645.5	4619.1
42.5°	4229.8	4209.3	4146.4	4065.9	4022.0
45°	3637.1	3621.0	3527.3	3419.0	3375.1
47.5°	2985.8	2936.0	2859.9	2767.7	2725.2
50°	2296.4	2290.5	2245.2	2223.2	2185.2
52.5°	1642.2	1642.2	1697.8	1689.0	1687.5
55°	1096.2	1138.7	1211.9	1260.2	1283.6
57.5°	714.2	753.8	815.2	866.5	889.9
60°	462.5	481.5	525.4	565.0	592.8
62.5°	286.9	303.0	326.4	351.3	361.5
65°	171.2	171.2	172.7	185.9	180.0
67.5°	115.6	120.0	114.2	114.2	128.8
70°	74.6	70.3	68.8	67.3	67.3
72.5°	48.3	41.0	43.9	46.8	41.0
75°	49.8	45.4	45.4	35.1	32.2
77.5°	17.6	19.0	13.2	10.2	8.8
80°	1.5	5.9	5.9	1.5	0.0
82.5°	17.6	16.1	13.2	20.5	13.2
85°	1.5	2.9	1.5	0.0	7.3
87.5°	0.0	0.0	0.0	1.5	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)