

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: P247173

Luminaire Tested: **LD8B120D010 ER8B120935 8LBW0H**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247173  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-58)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD8B120D010 ER8B120935 8LBW0H  
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
90 CRI 3500 CCT WITH SEMI-SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10595.0 lumens  
Efficiency: N/A  
Efficacy: 89.6 lumens/watt  
Spacing Criteria (0/90/45): 1.13 / 1.13 / 1.06  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

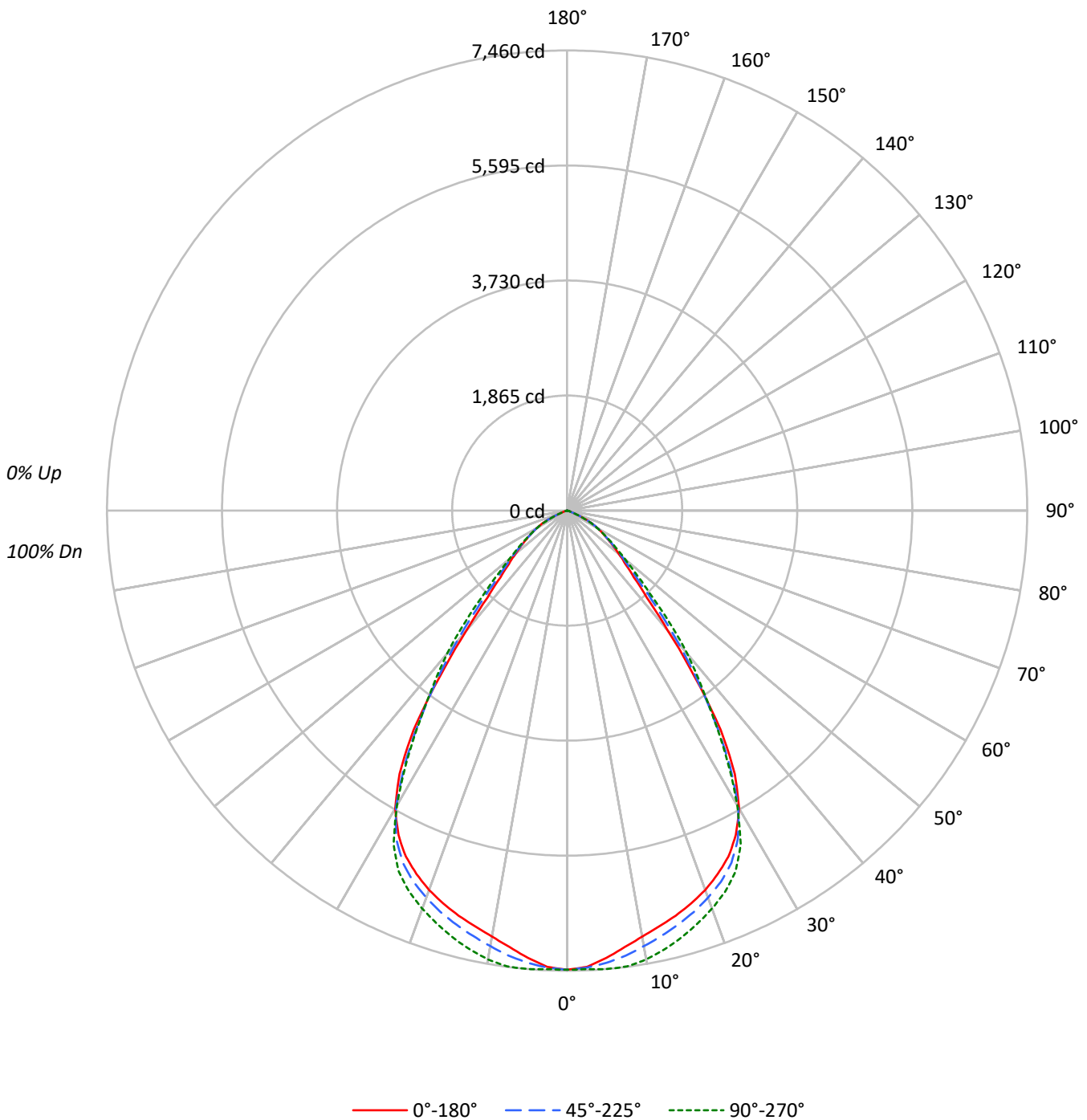
Input Watts (W): 118.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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	112	109	106	104	110	107	104	102	103	101	99	99	97	96	96	94	93	91					91			
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	86	84	82					82			
3	99	91	85	81	97	90	84	80	87	82	79	85	81	77	82	79	76	74					74			
4	93	84	77	72	91	82	76	72	80	75	71	78	74	70	76	72	69	67					67			
5	87	77	70	65	85	76	69	65	74	68	64	72	67	63	71	66	63	61					61			
6	81	71	64	59	80	70	64	59	69	63	58	67	62	58	66	61	57	56					56			
7	77	66	59	54	75	65	58	54	64	58	53	62	57	53	61	56	53	51					51			
8	72	61	54	49	71	60	54	49	59	53	49	58	53	49	57	52	49	47					47			
9	68	57	50	45	67	56	50	45	55	49	45	54	49	45	53	48	45	43					43			
10	64	53	47	42	63	53	46	42	52	46	42	51	46	42	50	45	42	40					40			

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

	0°	45°	90°
0°	229530	229530	229530
5°	225312	227760	230911
10°	219538	224535	231339
15°	217052	221825	228723
20°	214783	219111	225379
25°	210555	214362	219745
30°	198522	197628	196417
35°	163297	157669	156773
40°	102253	112824	121978
45°	66731	74397	82452
50°	52612	55145	58762
55°	42886	43633	44982
60°	35098	34864	34709
65°	22736	22094	20897
70°	7817	7249	6681
75°	2693	2550	2395
80°	1119	888	888
85°	460	460	460



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	697.3	6.6
10°-20°	1964.5	18.5
20°-30°	2873.2	27.1
30°-40°	2603.4	24.6
40°-50°	1384.3	13.1
50°-60°	738.8	7.0
60°-70°	301.3	2.8
70°-80°	30.4	0.3
80°-90°	1.8	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°	5535.0	52.2
0°-40°	8138.4	76.8
0°-60°	10261.5	96.9
0°-90°	10595.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10595.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	7444	7444	7444	7444	7444	
5°	7279	7298	7358	7425	7460	686
15°	6799	6838	6948	7092	7165	1918
25°	6188	6215	6300	6408	6458	2828
35°	4338	4278	4188	4157	4165	2607
45°	1530	1575	1706	1842	1891	1252
55°	798	796	812	823	837	723
65°	312	310	303	285	286	311
75°	23	23	21	20	20	33
85°	1	1	1	1	1	2
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	7443.5	7443.5	7443.5	7443.5	7443.5
2.5°	7403.3	7402.0	7415.8	7432.2	7441.0
5°	7278.9	7297.7	7358.0	7424.6	7459.8
7.5°	7138.2	7173.4	7277.6	7392.0	7453.5
10°	7011.3	7056.5	7170.9	7320.4	7388.2
12.5°	6902.0	6946.0	7061.6	7214.8	7288.9
15°	6799.0	6837.9	6948.5	7091.7	7164.6
17.5°	6679.6	6717.3	6824.1	6959.8	7022.6
20°	6545.2	6576.6	6677.1	6804.0	6868.1
22.5°	6378.1	6412.1	6513.8	6630.7	6691.0
25°	6188.4	6214.8	6300.3	6408.3	6458.5
27.5°	5924.6	5948.5	5998.7	6056.5	6094.2
30°	5575.4	5569.1	5550.3	5532.7	5516.3
32.5°	5060.3	5000.0	4908.3	4850.5	4853.0
35°	4337.9	4277.6	4188.4	4157.0	4164.6
37.5°	3389.4	3434.7	3471.1	3531.4	3560.3
40°	2540.2	2618.1	2802.8	2963.6	3030.2
42.5°	1909.5	1986.2	2179.6	2349.2	2441.0
45°	1530.2	1575.4	1706.0	1841.7	1890.7
47.5°	1281.4	1301.5	1376.9	1463.6	1506.3
50°	1096.7	1109.3	1149.5	1197.2	1224.9
52.5°	939.7	944.7	964.8	992.5	1010.1
55°	797.7	796.5	811.6	822.9	836.7
57.5°	674.6	673.4	673.4	677.1	685.9
60°	569.1	565.3	565.3	560.3	562.8
62.5°	463.6	459.8	451.0	444.7	442.2
65°	311.6	310.3	302.8	285.2	286.4
67.5°	162.1	160.8	153.3	148.2	145.7
70°	86.7	84.2	80.4	76.6	74.1
72.5°	44.0	42.7	41.5	38.9	38.9
75°	22.6	22.6	21.4	20.1	20.1
77.5°	11.3	11.3	10.1	10.1	10.1
80°	6.3	6.3	5.0	5.0	5.0
82.5°	2.5	2.5	2.5	2.5	2.5
85°	1.3	1.3	1.3	1.3	1.3
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)