

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: P247149

Luminaire Tested: **LD8B120D010 ER8B120830 8LBW0H**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247149  
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 ER8B120830 8LBW0H  
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
80 CRI 3000 CCT WITH SEMI-SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11948.0 lumens  
Efficiency: N/A  
Efficacy: 101.0 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

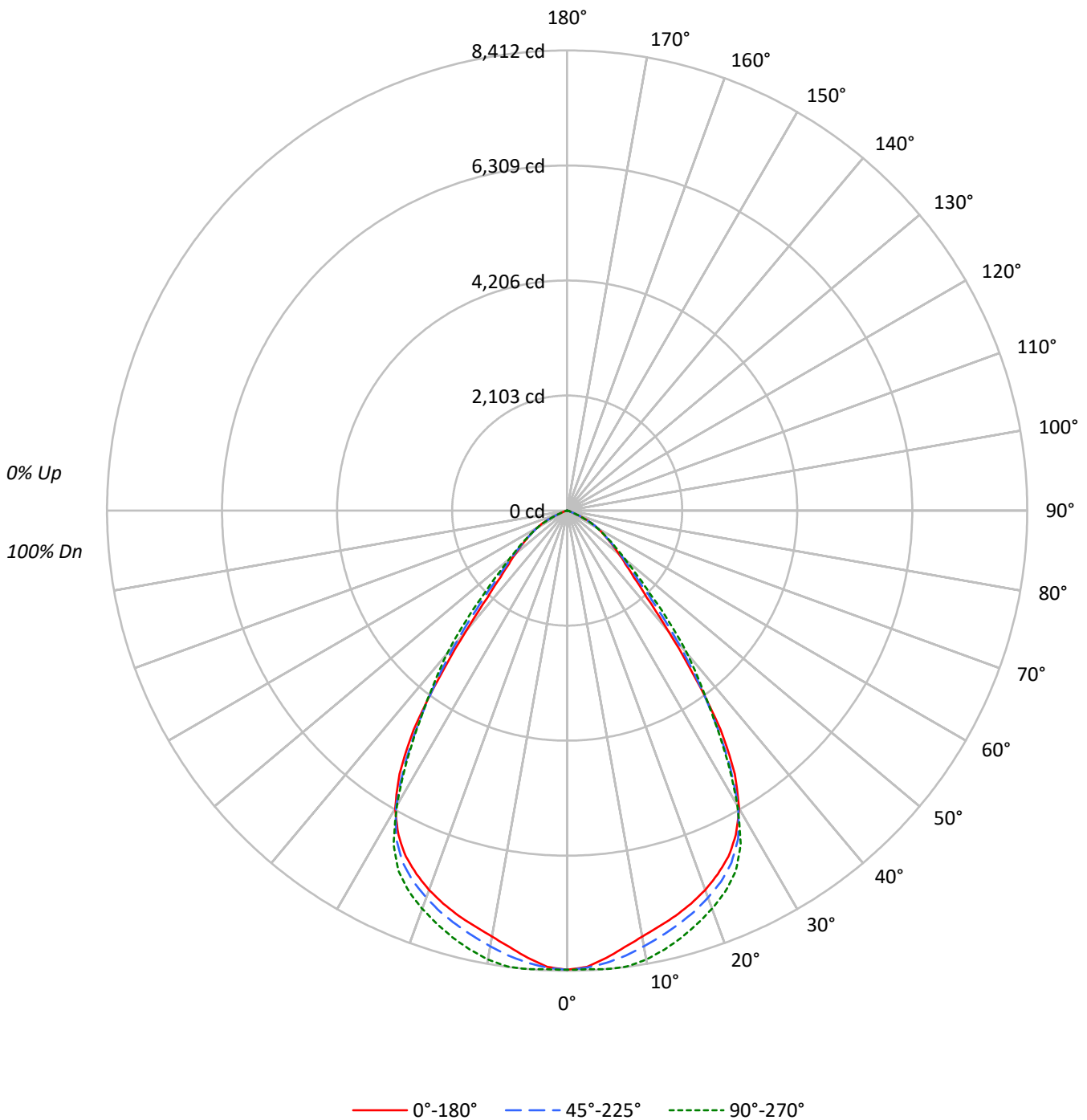
Input Watts (W): 118.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	258840	258840	258840
5°	254084	256848	260398
10°	247575	253208	260882
15°	244768	250151	257931
20°	242213	247093	254161
25°	237444	241734	247808
30°	223874	222862	221502
35°	184152	177805	176792
40°	115311	127231	137552
45°	75252	83900	92983
50°	59333	62187	66265
55°	48364	49203	50724
60°	39581	39316	39144
65°	25633	24910	23568
70°	8818	8177	7537
75°	3038	2871	2705
80°	1261	1012	1012
85°	495	495	495



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	786.3	6.6
10°-20°	2215.4	18.5
20°-30°	3240.1	27.1
30°-40°	2935.9	24.6
40°-50°	1561.1	13.1
50°-60°	833.2	7.0
60°-70°	339.8	2.8
70°-80°	34.3	0.3
80°-90°	2.0	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°	6241.8	52.2
0°-40°	9177.7	76.8
0°-60°	11571.9	96.9
0°-90°	11948.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11948.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	8394	8394	8394	8394	8394	
5°	8208	8230	8298	8373	8412	774
15°	7667	7711	7836	7997	8080	2163
25°	6979	7008	7105	7227	7283	3189
35°	4892	4824	4723	4688	4696	2940
45°	1726	1777	1924	2077	2132	1411
55°	900	898	915	928	944	816
65°	351	350	341	322	323	350
75°	26	26	24	23	23	37
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°	8394.0	8394.0	8394.0	8394.0	8394.0
2.5°	8348.7	8347.3	8362.8	8381.3	8391.2
5°	8208.4	8229.7	8297.7	8372.8	8412.4
7.5°	8049.8	8089.4	8207.0	8335.9	8405.3
10°	7906.7	7957.7	8086.6	8255.2	8331.7
12.5°	7783.4	7833.0	7963.3	8136.2	8219.8
15°	7667.2	7711.2	7835.8	7997.3	8079.5
17.5°	7532.7	7575.2	7695.6	7848.6	7919.4
20°	7381.1	7416.5	7529.8	7672.9	7745.2
22.5°	7192.6	7230.9	7345.6	7477.4	7545.4
25°	6978.7	7008.5	7104.8	7226.6	7283.3
27.5°	6681.2	6708.1	6764.8	6830.0	6872.5
30°	6287.4	6280.3	6259.0	6239.2	6220.8
32.5°	5706.5	5638.5	5535.1	5469.9	5472.8
35°	4891.9	4823.9	4723.3	4687.9	4696.4
37.5°	3822.3	3873.3	3914.4	3982.4	4015.0
40°	2864.6	2952.4	3160.7	3342.0	3417.1
42.5°	2153.4	2239.8	2458.0	2649.2	2752.7
45°	1725.6	1776.6	1923.9	2076.9	2132.2
47.5°	1445.0	1467.7	1552.7	1650.5	1698.6
50°	1236.8	1251.0	1296.3	1350.1	1381.3
52.5°	1059.7	1065.4	1088.0	1119.2	1139.0
55°	899.6	898.2	915.2	927.9	943.5
57.5°	760.8	759.4	759.4	763.6	773.5
60°	641.8	637.5	637.5	631.9	634.7
62.5°	522.8	518.5	508.6	501.5	498.7
65°	351.3	349.9	341.4	321.6	323.0
67.5°	182.8	181.3	172.8	167.2	164.3
70°	97.8	94.9	90.7	86.4	83.6
72.5°	49.6	48.2	46.8	43.9	43.9
75°	25.5	25.5	24.1	22.7	22.7
77.5°	12.8	12.8	11.3	11.3	11.3
80°	7.1	7.1	5.7	5.7	5.7
82.5°	2.8	2.8	2.8	2.8	2.8
85°	1.4	1.4	1.4	1.4	1.4
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)