

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: P247577

Luminaire Tested: **LD8B120D010 ER8B120827 8LBW0B**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247577  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-62)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD8B120D010 ER8B120827 8LBW0B  
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
80 CRI 2700 CCT WITH SPECULAR BLACK TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7642.0 lumens  
Efficiency: N/A  
Efficacy: 64.6 lumens/watt  
Spacing Criteria (0/90/45): 1.09 / 1.07 / 1.01  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

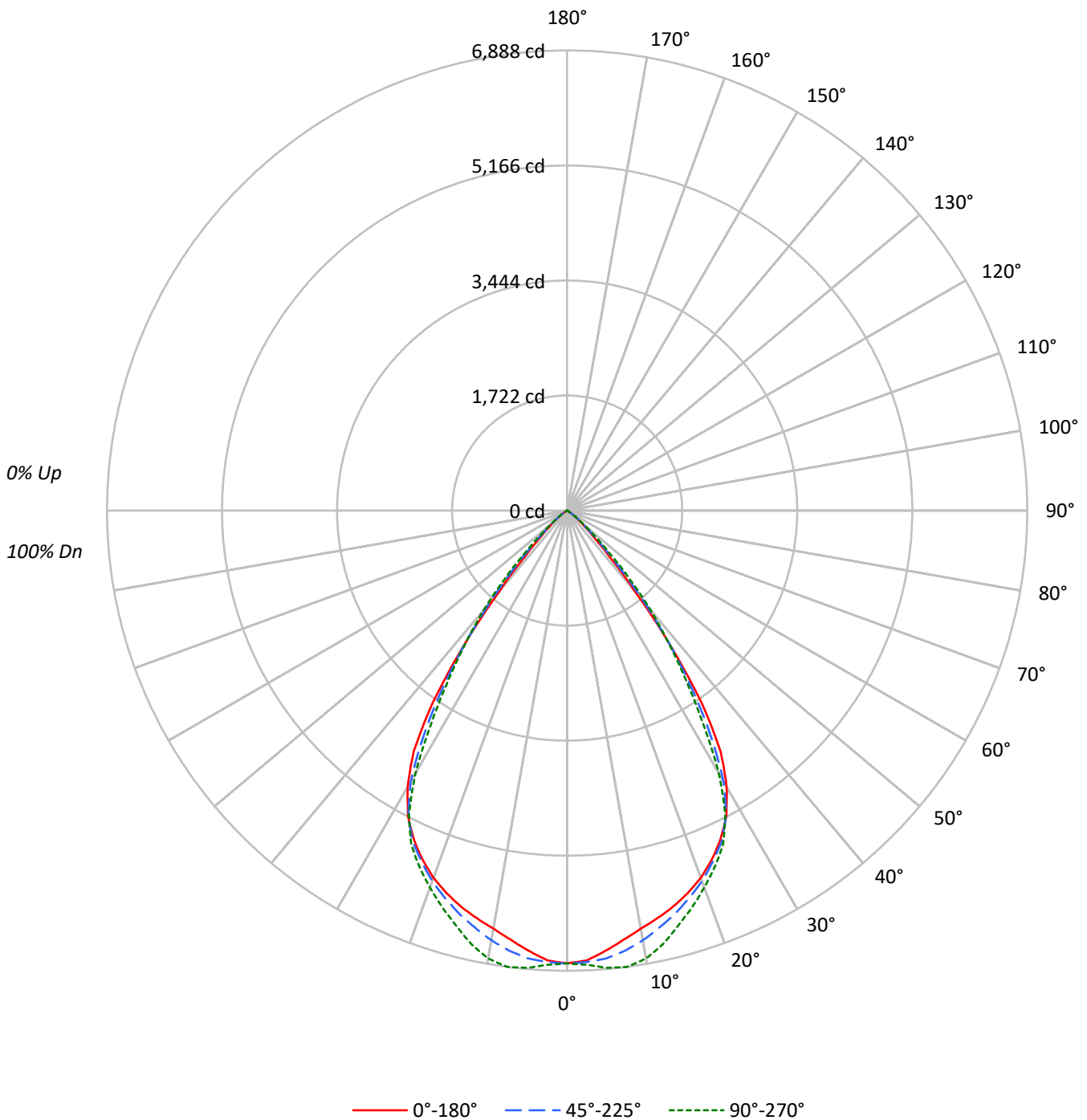
Input Watts (W): 118.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	100	100	100	100	100		
1	113	110	108	106	111	108	106	104	104	102	101	100	99	98	97	96	95	93	93	93	93	93	93	93		
2	107	102	98	95	105	101	97	94	97	94	91	94	92	90	92	89	88	86	86	86	86	86	86	86		
3	102	95	90	86	100	93	89	85	91	87	84	88	85	82	86	83	81	79	79	79	79	79	79	79		
4	96	88	82	78	94	87	82	77	85	80	77	83	79	76	81	78	75	73	73	73	73	73	73	73		
5	91	82	76	71	89	81	75	71	79	74	70	78	73	70	76	72	69	68	68	68	68	68	68	68		
6	86	77	70	66	84	76	70	65	74	69	65	73	68	65	71	67	64	63	63	63	63	63	63	63		
7	81	71	65	61	80	71	65	61	69	64	60	68	63	60	67	63	60	58	58	58	58	58	58	58		
8	77	67	61	56	76	66	60	56	65	60	56	64	59	56	63	59	55	54	54	54	54	54	54	54		
9	73	63	57	52	72	62	56	52	61	56	52	60	55	52	60	55	52	50	50	50	50	50	50	50		
10	69	59	53	49	68	59	53	49	58	52	49	57	52	49	56	52	48	47	47	47	47	47	47	47		

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

	0°	45°	90°
0°	209018	209018	209018
5°	204727	208318	212683
10°	198960	204496	213194
15°	195921	199408	205275
20°	191914	193683	197036
25°	184829	186146	187793
30°	170054	166757	161836
35°	131770	122769	116633
40°	64028	72650	77823
45°	24770	31878	38629
50°	11600	13260	15183
55°	4828	5199	5349
60°	1622	1536	1449
65°	204	299	299
70°	0	0	0
75°	0	0	0
80°	0	0	0
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	637.1	8.3
10°-20°	1763.2	23.1
20°-30°	2484.5	32.5
30°-40°	2010.1	26.3
40°-50°	638.1	8.4
50°-60°	102.0	1.3
60°-70°	6.9	0.1
70°-80°	0.0	0.0
80°-90°	0.0	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°	4884.9	63.9
0°-40°	6895.0	90.2
0°-60°	7635.1	99.9
0°-90°	7642.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7642.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	6778	6778	6778	6778	6778	
5°	6614	6644	6730	6828	6871	623
15°	6137	6161	6246	6365	6430	1728
25°	5432	5442	5471	5501	5519	2480
35°	3500	3405	3261	3144	3098	2076
45°	568	614	731	835	886	529
55°	90	91	97	101	100	94
65°	3	4	4	4	4	7
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	6778.3	6778.3	6778.3	6778.3	6778.3
2.5°	6739.6	6746.5	6763.1	6794.9	6804.6
5°	6613.9	6644.3	6729.9	6828.1	6870.9
7.5°	6478.4	6518.5	6644.3	6810.1	6887.5
10°	6354.1	6396.9	6530.9	6707.8	6808.7
12.5°	6249.0	6282.2	6391.4	6550.3	6644.3
15°	6137.1	6160.6	6246.3	6365.1	6430.1
17.5°	6003.0	6023.8	6080.4	6173.0	6222.8
20°	5848.3	5853.8	5902.2	5961.6	6004.4
22.5°	5656.2	5661.7	5689.4	5746.0	5775.0
25°	5432.3	5442.0	5471.0	5501.4	5519.4
27.5°	5157.3	5161.5	5147.6	5122.8	5128.3
30°	4775.9	4760.7	4683.3	4576.9	4545.1
32.5°	4275.7	4174.8	4007.6	3858.3	3797.5
35°	3500.4	3405.0	3261.3	3143.9	3098.3
37.5°	2515.1	2522.0	2512.3	2486.1	2491.6
40°	1590.6	1654.2	1804.8	1902.9	1933.3
42.5°	954.9	1024.0	1189.8	1322.5	1365.3
45°	568.0	613.6	731.0	834.7	885.8
47.5°	364.8	386.9	445.0	505.8	534.8
50°	241.8	252.9	276.4	304.0	316.5
52.5°	154.8	158.9	170.0	179.6	189.3
55°	89.8	91.2	96.7	100.9	99.5
57.5°	47.0	47.0	47.0	47.0	47.0
60°	26.3	24.9	24.9	24.9	23.5
62.5°	12.4	12.4	12.4	11.1	11.1
65°	2.8	4.1	4.1	4.1	4.1
67.5°	0.0	0.0	0.0	0.0	1.4
70°	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
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)