

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: P247621

Luminaire Tested: **LD8B120D010 ER8B1209730 8LBW0B**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247621  
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 ER8B1209730 8LBW0B  
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
97 CRI 3000 CCT WITH SPECULAR BLACK TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6001.0 lumens  
Efficiency: N/A  
Efficacy: 50.7 lumens/watt  
Spacing Criteria (0/90/45): 1.09 / 1.07 / 1.01  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

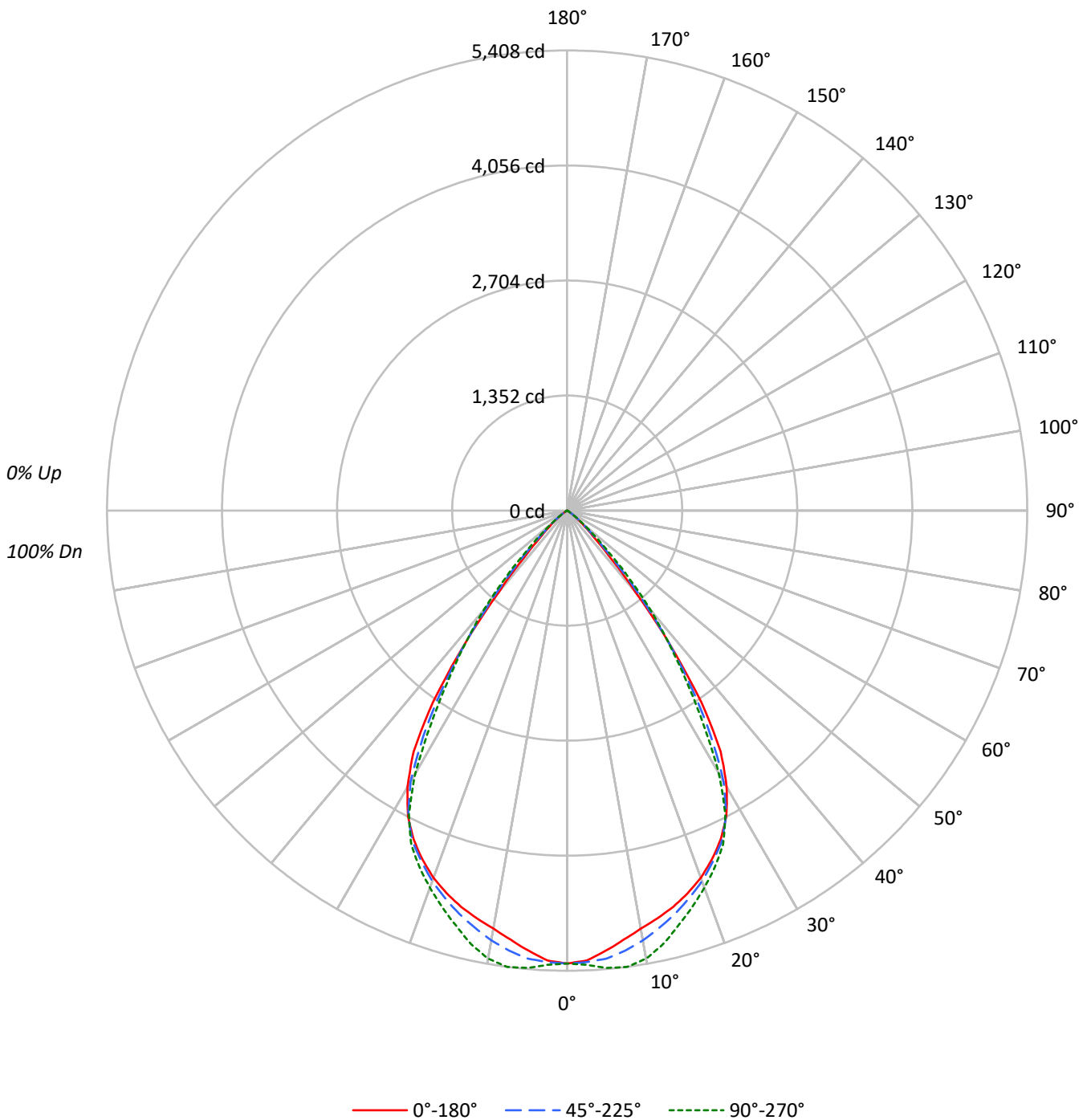
Input Watts (W): 118.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	0			
RCR																								
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	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			
2	107	102	98	95	105	101	97	94	97	94	91	94	92	90	92	89	88	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			
4	96	88	82	78	94	87	82	77	85	80	77	83	79	76	81	78	75	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			
6	86	77	70	66	84	76	70	65	74	69	65	73	68	65	71	67	64	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			
8	77	67	61	56	76	66	60	56	65	60	56	64	59	56	63	59	55	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			
10	69	59	53	49	68	59	53	49	58	52	49	57	52	49	56	52	48	47	47	47	47			

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

	0°	45°	90°
0°	Luminaire represents a point source (luminous area is zero).		
5°	No luminance values can be calculated.		
10°			
15°			
20°			
25°			
30°			
35°			
40°			
45°			
50°			
55°			
60°			
65°			
70°			
75°			
80°			
85°			



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	500.3	8.3
10°-20°	1384.6	23.1
20°-30°	1951.0	32.5
30°-40°	1578.4	26.3
40°-50°	501.1	8.3
50°-60°	80.1	1.3
60°-70°	5.4	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°	3835.9	63.9
0°-40°	5414.4	90.2
0°-60°	5995.6	99.9
0°-90°	6001.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6001.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5323	5323	5323	5323	5323	
5°	5194	5218	5285	5362	5396	489
15°	4819	4838	4905	4998	5049	1357
25°	4266	4273	4296	4320	4334	1948
35°	2749	2674	2561	2469	2433	1630
45°	446	482	574	655	696	416
55°	70	72	76	79	78	73
65°	2	3	3	3	3	5
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°	5322.8	5322.8	5322.8	5322.8	5322.8
2.5°	5292.4	5297.8	5310.8	5335.8	5343.4
5°	5193.6	5217.5	5284.8	5361.8	5395.5
7.5°	5087.3	5118.8	5217.5	5347.7	5408.5
10°	4989.6	5023.3	5128.5	5267.4	5346.6
12.5°	4907.1	4933.2	5018.9	5143.7	5217.5
15°	4819.2	4837.7	4905.0	4998.3	5049.3
17.5°	4714.0	4730.3	4774.8	4847.5	4886.5
20°	4592.4	4596.8	4634.8	4681.4	4715.1
22.5°	4441.6	4446.0	4467.7	4512.1	4534.9
25°	4265.8	4273.4	4296.2	4320.1	4334.2
27.5°	4049.9	4053.1	4042.3	4022.7	4027.1
30°	3750.4	3738.4	3677.6	3594.1	3569.1
32.5°	3357.5	3278.3	3147.0	3029.8	2982.1
35°	2748.7	2673.9	2561.0	2468.8	2433.0
37.5°	1975.0	1980.4	1972.8	1952.2	1956.6
40°	1249.0	1299.0	1417.2	1494.3	1518.2
42.5°	749.9	804.1	934.3	1038.5	1072.2
45°	446.0	481.8	574.1	655.4	695.6
47.5°	286.5	303.8	349.4	397.2	420.0
50°	189.9	198.6	217.0	238.7	248.5
52.5°	121.5	124.8	133.5	141.1	148.7
55°	70.5	71.6	76.0	79.2	78.1
57.5°	36.9	36.9	36.9	36.9	36.9
60°	20.6	19.5	19.5	19.5	18.4
62.5°	9.8	9.8	9.8	8.7	8.7
65°	2.2	3.3	3.3	3.3	3.3
67.5°	0.0	0.0	0.0	0.0	1.1
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)