

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: P247513

Luminaire Tested: **LD8B120D010 ER8B120940 8LBW0GPH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247513  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-61)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD8B120D010 ER8B120940 8LBW0GPH  
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
90 CRI 4000 CCT WITH GRAPHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9960.0 lumens  
Efficiency: N/A  
Efficacy: 84.2 lumens/watt  
Spacing Criteria (0/90/45): 1.12 / 1.13 / 1.05  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

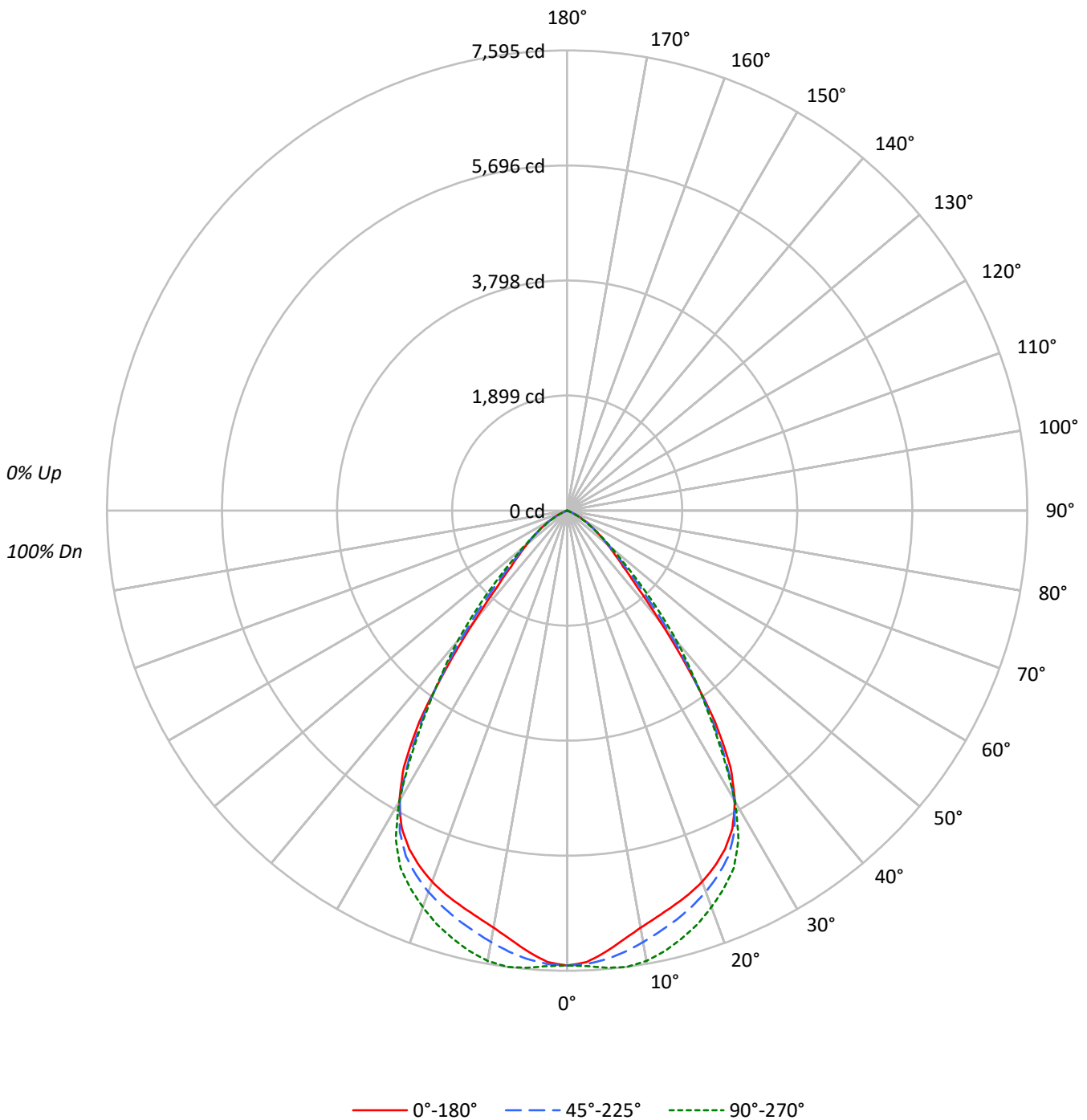
Input Watts (W): 118.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	113	110	107	104	110	107	105	103	103	101	100	100	98	97	96	95	94	92					92			
2	106	101	96	92	104	99	95	91	96	92	89	93	90	87	90	88	85	84					84			
3	100	93	87	82	98	91	86	82	88	84	80	86	82	79	84	81	78	76					76			
4	94	85	79	74	92	84	78	74	82	77	73	80	75	72	78	74	71	69					69			
5	88	79	72	67	86	78	72	67	76	70	66	74	69	66	72	68	65	63					63			
6	83	73	66	61	81	72	66	61	70	65	61	69	64	60	68	63	60	58					58			
7	78	68	61	56	77	67	61	56	66	60	56	64	59	55	63	59	55	53					53			
8	74	63	56	52	72	62	56	52	61	55	51	60	55	51	59	54	51	49					49			
9	70	59	52	48	68	58	52	48	57	52	47	56	51	47	55	51	47	46					46			
10	66	55	49	44	65	55	48	44	54	48	44	53	48	44	52	47	44	42					42			

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

	0°	45°	90°
0°	231538	231538	231538
5°	226290	230107	234493
10°	218799	226439	236299
15°	215705	223076	233423
20°	213890	219745	228572
25°	209762	214226	221412
30°	197190	196442	197375
35°	160217	154834	152463
40°	95116	104833	113548
45°	56927	64079	72779
50°	41477	42547	45694
55°	30047	28988	29623
60°	20389	18853	18126
65°	10244	9478	8997
70°	2840	2488	2245
75°	1096	786	786
80°	462	462	231
85°	460	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	704.0	7.1
10°-20°	1977.0	19.8
20°-30°	2873.5	28.9
30°-40°	2541.1	25.5
40°-50°	1208.8	12.1
50°-60°	503.5	5.1
60°-70°	140.7	1.4
70°-80°	10.6	0.1
80°-90°	0.8	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°	5554.5	55.8
0°-40°	8095.6	81.3
0°-60°	9807.9	98.5
0°-90°	9960.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9960.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	7509	7509	7509	7509	7509	
5°	7310	7347	7434	7532	7576	687
15°	6757	6818	6988	7200	7312	1908
25°	6165	6193	6296	6435	6508	2818
35°	4256	4196	4113	4050	4050	2547
45°	1305	1351	1469	1606	1669	1087
55°	559	552	539	539	551	508
65°	140	138	130	125	123	153
75°	9	8	7	7	7	12
85°	1	1	0	0	0	1
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	7508.6	7508.6	7508.6	7508.6	7508.6
2.5°	7458.7	7465.3	7490.2	7513.8	7524.3
5°	7310.5	7347.2	7433.8	7532.2	7575.5
7.5°	7141.2	7196.3	7342.0	7515.1	7595.2
10°	6987.7	7057.2	7231.7	7445.6	7546.6
12.5°	6867.0	6931.3	7109.7	7332.8	7446.9
15°	6756.8	6818.5	6987.7	7200.3	7311.8
17.5°	6646.6	6705.6	6851.3	7049.4	7157.0
20°	6518.0	6565.2	6696.4	6870.9	6965.4
22.5°	6358.0	6401.2	6511.5	6666.3	6751.6
25°	6165.1	6192.6	6296.3	6435.4	6507.5
27.5°	5909.2	5915.8	5978.8	6069.3	6123.1
30°	5538.0	5534.0	5517.0	5513.0	5543.2
32.5°	5018.4	4960.7	4861.0	4813.7	4777.0
35°	4256.1	4195.8	4113.1	4050.1	4050.1
37.5°	3253.8	3306.2	3339.0	3378.4	3398.1
40°	2362.9	2440.3	2604.3	2774.9	2820.8
42.5°	1717.4	1789.6	1966.7	2156.9	2212.0
45°	1305.4	1351.4	1469.4	1605.9	1668.9
47.5°	1054.8	1068.0	1127.0	1208.4	1238.5
50°	864.6	868.5	886.9	928.9	952.5
52.5°	699.3	696.7	701.9	713.7	724.2
55°	558.9	552.4	539.2	539.2	551.0
57.5°	431.6	422.5	408.0	401.5	397.5
60°	330.6	321.4	305.7	295.2	293.9
62.5°	237.5	229.6	213.9	204.7	202.0
65°	140.4	137.8	129.9	124.6	123.3
67.5°	65.6	63.0	56.4	53.8	52.5
70°	31.5	30.2	27.6	26.2	24.9
72.5°	15.7	15.7	13.1	13.1	13.1
75°	9.2	7.9	6.6	6.6	6.6
77.5°	5.2	3.9	3.9	3.9	3.9
80°	2.6	2.6	2.6	1.3	1.3
82.5°	1.3	1.3	1.3	1.3	1.3
85°	1.3	1.3	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)