

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: P247709

Luminaire Tested: **LD8B120D010 ER8B120950 8LBW0MW**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247709  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-63)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD8B120D010 ER8B120950 8LBW0MW  
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
90 CRI 5000 CCT WITH MATTE WHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11759.0 lumens  
Efficiency: N/A  
Efficacy: 99.4 lumens/watt  
Spacing Criteria (0/90/45): 1.12 / 1.09 / 1.05  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

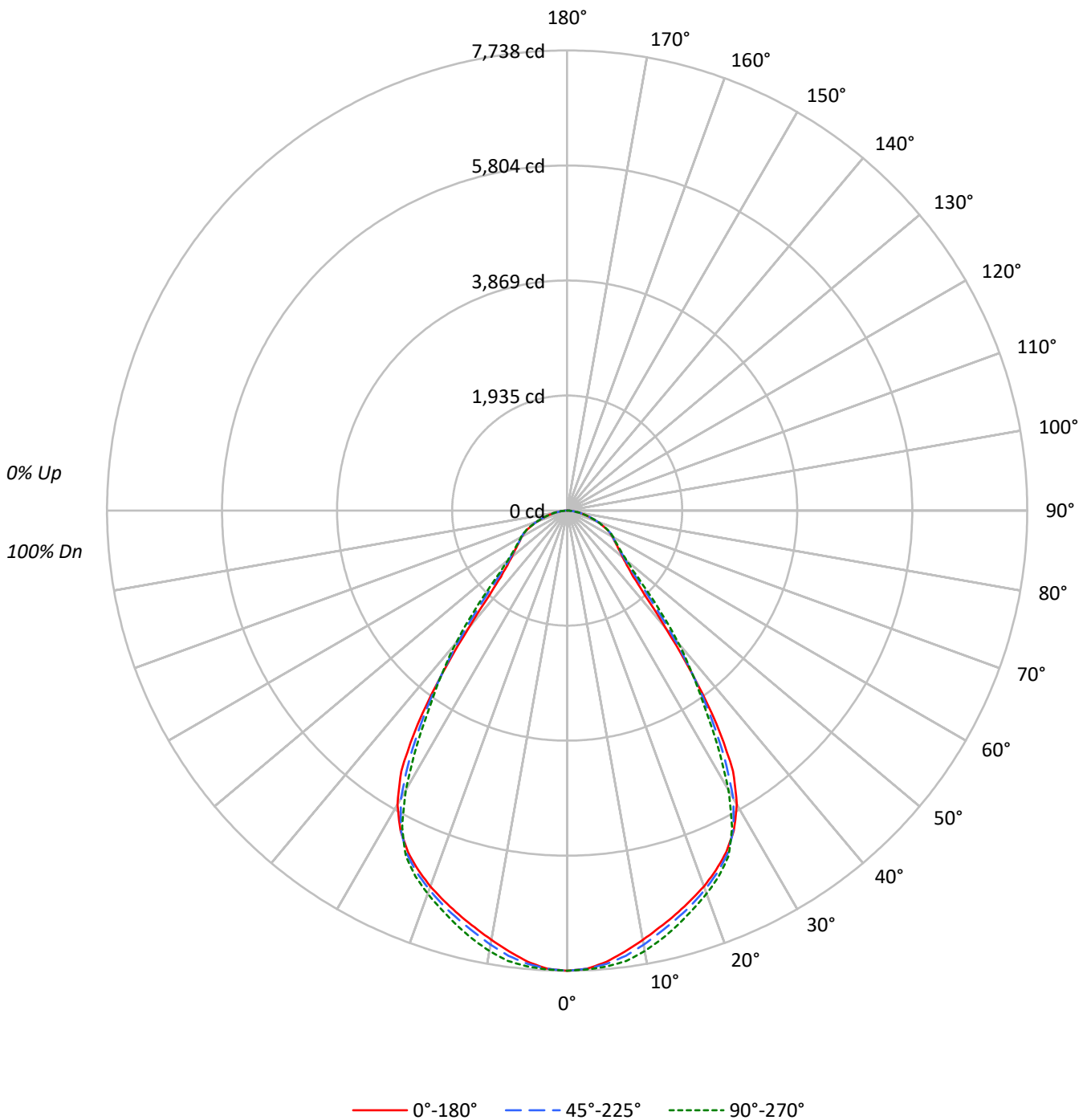
Input Watts (W): 118.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	111	107	104	101	109	105	102	99	101	99	96	97	95	93	94	92	91	89					89			
2	103	97	91	87	101	95	90	86	92	88	84	89	85	82	86	83	80	78					78			
3	96	88	81	76	94	86	80	75	84	78	74	81	77	73	79	75	72	70					70			
4	90	80	73	67	88	79	72	67	76	71	66	74	69	65	72	68	64	63					63			
5	84	73	66	60	82	72	65	60	70	64	59	68	63	59	67	62	58	57					57			
6	79	67	60	55	77	67	60	54	65	59	54	63	58	54	62	57	53	51					51			
7	74	62	55	50	72	62	55	50	60	54	49	59	53	49	58	53	49	47					47			
8	69	58	51	46	68	57	50	45	56	50	45	55	49	45	54	49	45	43					43			
9	66	54	47	42	64	53	47	42	52	46	42	51	46	42	50	45	41	40					40			
10	62	50	43	39	61	50	43	39	49	43	39	48	42	38	47	42	38	37					37			

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

	0°	45°	90°
0°	238618	238618	238618
5°	235703	236839	238186
10°	229539	232091	235495
15°	224529	226913	230166
20°	220676	222547	225002
25°	215492	216832	218265
30°	203168	198814	192960
35°	164930	157515	151480
40°	103139	111942	117356
45°	68724	75182	81580
50°	58589	60350	62437
55°	54778	55509	56310
60°	54290	54630	55129
65°	52936	53527	53921
70°	48010	48380	48749
75°	41926	42403	42570
80°	35711	35711	36670
85°	28835	28835	28835



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	723.1	6.1
10°-20°	2006.2	17.1
20°-30°	2900.3	24.7
30°-40°	2595.6	22.1
40°-50°	1404.6	11.9
50°-60°	936.2	8.0
60°-70°	717.0	6.1
70°-80°	380.0	3.2
80°-90°	96.1	0.8
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°	5629.5	47.9
0°-40°	8225.1	69.9
0°-60°	10566.0	89.9
0°-90°	11759.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11759.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	7738	7738	7738	7738	7738	
5°	7615	7619	7651	7681	7695	718
15°	7033	7047	7108	7177	7210	1984
25°	6334	6348	6373	6403	6415	2898
35°	4381	4336	4184	4063	4024	2652
45°	1576	1622	1724	1831	1871	1297
55°	1019	1023	1032	1043	1047	922
65°	726	728	734	739	739	711
75°	352	352	356	357	357	378
85°	82	82	82	83	82	96
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	7738.2	7738.2	7738.2	7738.2	7738.2
2.5°	7712.4	7709.7	7711.1	7719.2	7723.3
5°	7614.6	7618.7	7651.3	7681.2	7694.8
7.5°	7477.4	7495.1	7550.8	7609.2	7639.1
10°	7330.7	7348.3	7412.2	7495.1	7520.9
12.5°	7179.9	7201.6	7258.7	7342.9	7374.2
15°	7033.2	7046.8	7107.9	7177.2	7209.8
17.5°	6882.4	6896.0	6951.7	7006.0	7031.8
20°	6724.8	6739.7	6781.8	6828.0	6856.6
22.5°	6544.1	6559.0	6594.4	6635.1	6660.9
25°	6333.5	6348.5	6372.9	6402.8	6415.0
27.5°	6067.2	6076.8	6053.7	6029.2	6007.5
30°	5705.9	5676.0	5583.6	5465.4	5419.2
32.5°	5192.3	5095.9	4917.9	4773.9	4720.9
35°	4381.3	4336.5	4184.3	4063.4	4024.0
37.5°	3435.7	3465.6	3454.8	3446.6	3454.8
40°	2562.2	2631.5	2780.9	2882.8	2915.4
42.5°	1940.0	2006.6	2175.0	2316.3	2365.2
45°	1575.9	1622.1	1724.0	1831.3	1870.7
47.5°	1359.9	1385.7	1437.3	1494.4	1513.4
50°	1221.3	1232.2	1258.0	1290.6	1301.5
52.5°	1111.3	1116.7	1131.7	1149.3	1152.0
55°	1018.9	1023.0	1032.5	1043.4	1047.4
57.5°	941.5	945.5	948.3	955.1	957.8
60°	880.3	880.3	885.8	891.2	893.9
62.5°	813.8	813.8	819.2	824.6	824.6
65°	725.5	728.2	733.6	739.0	739.0
67.5°	629.0	630.4	634.4	639.9	638.5
70°	532.5	532.5	536.6	539.3	540.7
72.5°	440.2	438.8	445.6	447.0	442.9
75°	351.9	351.9	355.9	357.3	357.3
77.5°	274.4	273.1	273.1	274.4	275.8
80°	201.1	202.4	201.1	203.8	206.5
82.5°	139.9	138.6	138.6	138.6	137.2
85°	81.5	81.5	81.5	82.9	81.5
87.5°	32.6	32.6	31.2	31.2	29.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)