

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: P250120

Luminaire Tested: **LD8B80D010 ER8B80827 8LBM0WH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P250120  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13942)  
Test Lab: INNOVATION CENTER-P1  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD8B80D010 ER8B80827 8LBM0WH  
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED  
DOWNLIGHT  
80 CRI 2700 CCT WITH WHEAT TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7876.0 lumens  
Efficiency: N/A  
Efficacy: 105.9 lumens/watt  
Spacing Criteria (0/90/45): 0.84 / 0.8 / 0.85  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

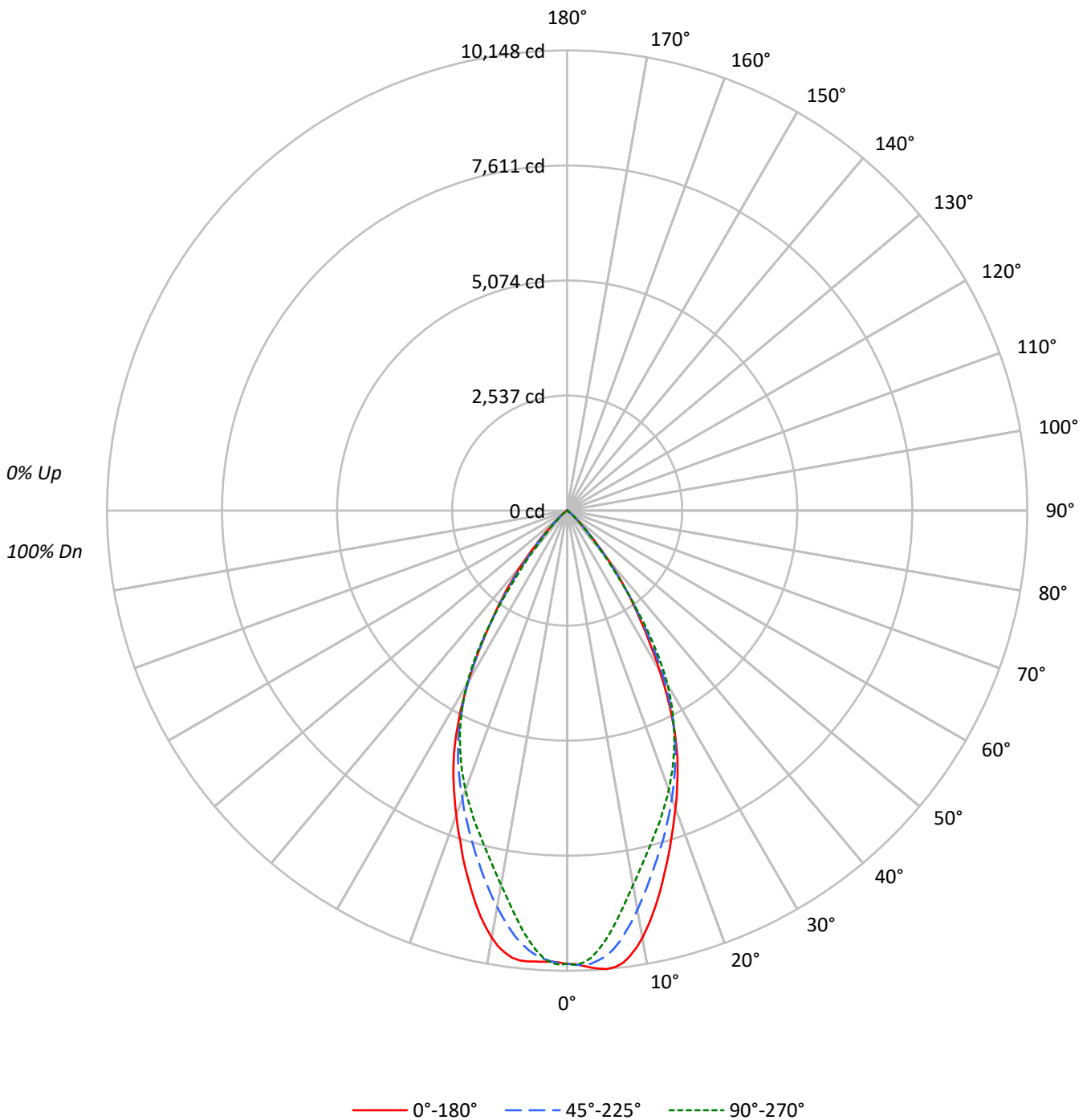
Input Watts (W): 74.4  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				100
1	114	111	108	106	111	109	107	105	105	103	101	101	100	98	98	97	96	94				94
2	108	103	99	96	106	102	98	95	98	95	93	95	93	91	93	91	89	87				87
3	103	97	92	88	101	95	91	87	93	89	86	90	87	84	88	85	83	81				81
4	98	90	85	81	96	89	84	80	87	83	79	85	81	78	83	80	77	76				76
5	93	85	79	75	91	84	78	74	82	77	74	80	76	73	79	75	72	71				71
6	88	80	74	69	87	79	73	69	77	72	69	76	72	68	75	71	68	66				66
7	84	75	69	65	83	74	69	65	73	68	64	72	67	64	71	67	64	62				62
8	80	71	65	61	79	70	64	61	69	64	60	68	63	60	67	63	60	58				58
9	76	67	61	57	75	66	61	57	65	60	57	64	60	56	64	59	56	55				55
10	73	63	57	54	72	63	57	54	62	57	53	61	56	53	60	56	53	52				52

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

	0°	90°	180°
0°	308218	308218	308218
5°	314138	295104	309021
10°	299506	262523	299431
15°	264475	236778	268973
20°	229192	214917	234616
25°	193648	190341	200759
30°	145546	157574	155494
35°	97431	103010	105663
40°	54584	46856	62607
45°	21940	19288	26070
50°	7575	7345	8976
55°	2091	2484	2355
60°	1196	1499	1351
65°	1065	883	708
70°	0	658	442
75°	0	0	0
80°	0	0	426
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	907.4	11.5
10°-20°	2194.6	27.9
20°-30°	2572.2	32.7
30°-40°	1692.4	21.5
40°-50°	441.6	5.6
50°-60°	54.3	0.7
60°-70°	11.3	0.1
70°-80°	2.1	0.0
80°-90°	0.1	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°	5674.2	72.0
0°-40°	7366.6	93.5
0°-60°	7862.6	99.8
0°-90°	7876.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7876.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	9995	9995	9995	9995	9995	
5°	10148	9859	9534	9730	9983	951
15°	8284	7816	7417	7816	8425	2309
25°	5692	5636	5594	5689	5900	2566
35°	2588	2646	2736	2763	2807	1621
45°	503	474	442	513	598	451
55°	39	41	46	46	44	52
65°	15	12	12	10	10	10
75°	0	2	0	0	0	1
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°	112.5°	135°	157.5°	180°
0°	9995.3	9995.3	9995.3	9995.3	9995.3	9995.3	9995.3	9995.3	9995.3
1°	10002.6	10017.2	10022.0	10036.7	10014.8	10000.2	9980.8	9966.2	9968.6
2°	10046.4	10053.7	10026.9	10017.2	9978.3	9966.2	9951.6	9949.1	9951.6
3°	10092.6	10077.9	10007.5	9941.9	9883.6	9876.2	9903.0	9941.9	9963.7
4°	10129.0	10090.1	9941.9	9820.3	9728.0	9720.7	9827.7	9927.3	9968.6
5°	10148.5	10077.9	9859.2	9655.1	9533.6	9579.8	9730.4	9907.8	9983.2
6°	10121.7	10017.2	9732.9	9460.7	9322.2	9382.9	9604.1	9861.7	9973.5
7°	10053.7	9920.0	9570.1	9249.3	9079.1	9173.9	9455.8	9783.9	9937.0
8°	9927.3	9766.9	9363.5	9003.8	8836.1	8943.0	9273.6	9672.1	9849.5
9°	9762.0	9584.6	9159.4	8780.2	8600.4	8726.8	9084.0	9523.9	9728.0
10°	9565.2	9375.6	8933.3	8547.0	8384.1	8503.2	8879.9	9351.3	9562.8
11°	9334.3	9152.1	8707.3	8328.3	8172.7	8289.4	8675.8	9144.8	9373.2
12°	9084.0	8916.3	8476.5	8116.8	7971.0	8082.8	8457.1	8930.9	9156.9
13°	8833.7	8666.0	8252.9	7912.7	7779.0	7885.9	8243.2	8697.6	8923.6
14°	8564.0	8410.9	8029.3	7718.2	7596.7	7698.8	8024.5	8461.9	8675.8
15°	8284.5	8163.0	7815.5	7531.1	7416.9	7514.1	7815.5	8218.8	8425.4
16°	8022.0	7910.2	7608.9	7346.4	7251.7	7329.4	7604.1	7975.9	8172.7
17°	7754.7	7652.6	7402.3	7164.2	7079.1	7154.5	7387.7	7730.4	7907.8
18°	7487.4	7402.3	7176.3	6972.2	6896.9	6964.9	7173.9	7482.5	7642.9
19°	7239.5	7161.7	6969.8	6797.2	6729.2	6789.9	6986.8	7244.4	7404.7
20°	6984.3	6921.1	6753.5	6612.5	6549.3	6605.2	6758.3	7008.7	7149.6
21°	6738.9	6683.0	6537.2	6418.1	6367.1	6413.3	6554.2	6780.2	6904.1
22°	6483.7	6452.2	6320.9	6221.3	6187.2	6216.4	6345.2	6539.6	6656.3
23°	6233.4	6204.3	6104.6	6022.0	5992.8	6022.0	6136.2	6311.2	6415.7
24°	5980.7	5949.1	5876.2	5822.7	5798.4	5822.7	5919.9	6068.1	6167.8
25°	5691.5	5686.6	5635.6	5606.4	5594.3	5621.0	5689.1	5817.9	5900.5
26°	5414.4	5399.8	5385.3	5380.4	5382.8	5397.4	5453.3	5550.5	5616.2
27°	5074.2	5096.1	5117.9	5147.1	5156.8	5169.0	5195.7	5266.2	5314.8
28°	4748.6	4789.9	4843.3	4901.7	4928.4	4928.4	4930.8	4969.7	5011.0
29°	4425.4	4469.1	4554.2	4641.6	4678.1	4673.2	4653.8	4670.8	4695.1
30°	4087.6	4143.5	4257.7	4371.9	4425.4	4405.9	4369.5	4352.5	4367.0
31°	3757.1	3813.0	3939.3	4063.3	4133.7	4111.9	4048.7	4036.6	4043.8
32°	3441.2	3497.0	3613.7	3744.9	3825.1	3796.0	3730.3	3710.9	3713.3
33°	3134.9	3178.7	3285.6	3407.1	3472.7	3465.4	3412.0	3387.7	3390.1
34°	2845.8	2882.2	2962.4	3054.8	3117.9	3115.5	3076.6	3079.0	3086.3
35°	2588.2	2607.6	2646.4	2697.5	2736.4	2758.2	2763.1	2782.5	2806.9
37.5°	1956.3	1963.6	1917.4	1866.4	1856.7	1919.9	2029.2	2124.0	2160.4
40°	1356.0	1339.0	1280.7	1190.8	1164.0	1234.6	1373.0	1506.7	1555.3
42.5°	843.3	836.0	799.5	731.5	707.2	748.5	853.0	955.1	1003.7
45°	503.1	493.3	473.9	447.2	442.3	459.3	512.7	571.1	597.8
47.5°	289.2	286.8	274.6	264.9	262.5	274.6	298.9	332.9	340.2
50°	157.9	155.6	153.1	153.1	153.1	160.4	172.6	182.3	187.1
52.5°	77.8	80.2	77.8	80.2	82.7	87.5	85.0	94.8	94.8
55°	38.9	36.5	41.3	46.2	46.2	46.2	46.2	46.2	43.8
57.5°	29.1	31.6	26.8	29.1	26.8	26.8	24.3	26.8	29.1



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
60°	19.4	17.0	19.4	21.9	24.3	21.9	17.0	19.4	21.9
62.5°	9.7	9.7	9.7	14.6	21.9	17.0	14.6	12.1	12.1
65°	14.6	9.7	12.1	14.6	12.1	12.1	9.7	12.1	9.7
67.5°	7.3	12.1	7.3	4.9	7.3	9.7	7.3	4.9	4.9
70°	0.0	2.4	2.4	7.3	7.3	7.3	7.3	4.9	4.9
72.5°	2.4	2.4	2.4	4.9	2.4	4.9	2.4	2.4	4.9
75°	0.0	0.0	2.4	2.4	0.0	2.4	0.0	0.0	0.0
77.5°	2.4	0.0	2.4	2.4	0.0	0.0	0.0	2.4	0.0
80°	0.0	0.0	2.4	0.0	0.0	0.0	0.0	0.0	2.4
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)