

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: P247923

Luminaire Tested: **LD8B175D010 ER8B175850 8LBW0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247923
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-70)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD8B175D010 ER8B175850 8LBW0H
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT
80 CRI 5000 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18604.0 lumens
Efficiency: N/A
Efficacy: 105.0 lumens/watt
Spacing Criteria (0/90/45): 1.12 / 1.12 / 1.06
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

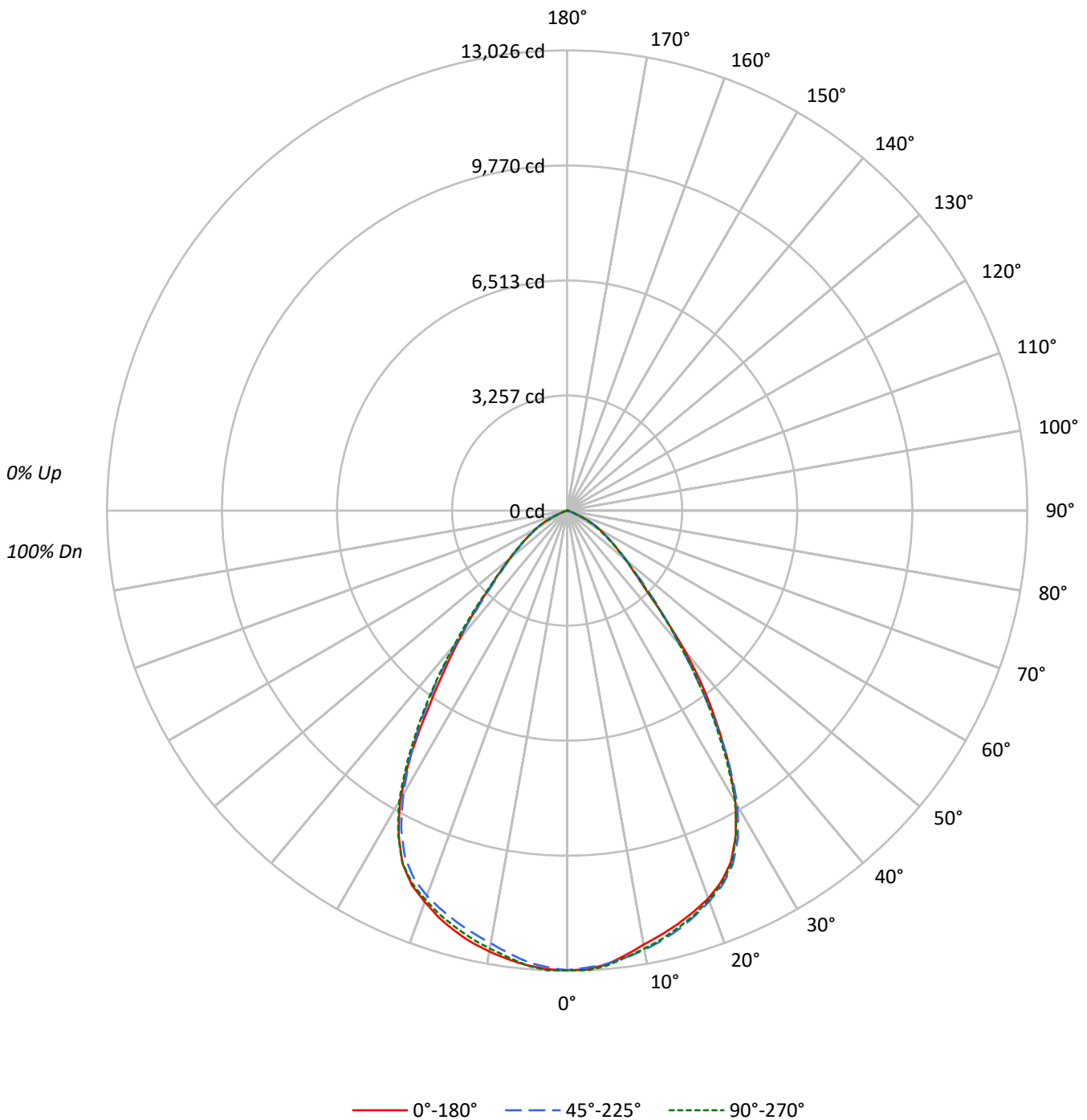
Input Watts (W): 177.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	112	109	106	104	110	107	104	102	103	101	99	99	97	96	96	94	93	91					91			
2	105	100	95	91	103	98	93	90	94	91	88	91	88	86	89	86	84	82					82			
3	99	91	85	80	97	90	84	80	87	82	78	84	80	77	82	79	76	74					74			
4	92	83	77	72	90	82	76	71	80	75	70	78	73	70	76	72	69	67					67			
5	87	77	70	65	85	76	69	64	74	68	64	72	67	63	70	66	62	61					61			
6	81	71	64	59	80	70	63	58	68	62	58	67	61	57	65	61	57	55					55			
7	76	65	58	53	75	65	58	53	63	57	53	62	57	53	61	56	52	51					51			
8	72	61	54	49	71	60	54	49	59	53	49	58	52	48	57	52	48	47					47			
9	68	57	50	45	67	56	50	45	55	49	45	54	49	45	53	48	45	43					43			
10	64	53	46	42	63	52	46	42	52	46	42	51	45	41	50	45	41	40					40			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	401165	401165	401165
5°	399085	400218	400004
10°	390558	394174	396933
15°	386729	389832	393081
20°	383414	384806	386719
25°	373336	374776	375089
30°	338865	338541	336263
35°	279004	272762	259116
40°	208624	199237	190212
45°	135101	138642	135498
50°	103415	102863	102427
55°	81029	79556	78879
60°	64460	60939	61784
65°	42305	37380	37796
70°	15156	13921	14435
75°	5445	6672	5445
80°	3445	4866	4067
85°	814	2441	1628



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1218.5	6.5
10°-20°	3435.3	18.5
20°-30°	4980.6	26.8
30°-40°	4476.9	24.1
40°-50°	2522.8	13.6
50°-60°	1344.2	7.2
60°-70°	537.2	2.9
70°-80°	71.5	0.4
80°-90°	16.9	0.1
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°	9634.5	51.8
0°-40°	14111.4	75.9
0°-60°	17978.4	96.6
0°-90°	18604.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	18604.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	13010	13010	13010	13010	13010	
5°	12893	12881	12929	12828	12922	###
15°	12114	12255	12211	12060	12313	3418
25°	10973	11076	11015	10845	11024	4981
35°	7412	7305	7246	7145	6883	4599
45°	3098	3266	3179	3029	3107	2545
55°	1507	1512	1480	1446	1467	1374
65°	580	552	512	498	518	574
75°	46	58	56	55	46	68
85°	2	14	7	19	5	7
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°	13009.5	13009.5	13009.5	13009.5	13009.5	13009.5	13009.5	13009.5	13009.5
2.5°	13000.3	12972.9	12952.3	12991.2	13025.5	12931.7	12938.6	12979.7	12993.5
5°	12892.8	12867.7	12881.4	12913.4	12929.4	12811.6	12827.6	12897.4	12922.5
7.5°	12691.5	12711.0	12760.2	12801.3	12753.3	12614.9	12637.8	12757.9	12807.0
10°	12473.1	12518.9	12621.8	12669.8	12588.6	12411.4	12437.7	12598.9	12676.7
12.5°	12299.3	12349.6	12457.1	12493.7	12421.7	12230.7	12258.1	12425.1	12517.7
15°	12114.0	12159.8	12254.7	12284.4	12211.2	12035.1	12060.3	12220.4	12313.0
17.5°	11904.8	11944.8	12029.4	12056.9	11992.8	11806.4	11846.4	11995.1	12076.3
20°	11684.0	11712.6	11772.1	11788.1	11726.4	11585.7	11604.0	11732.1	11784.7
22.5°	11383.3	11419.9	11474.8	11491.9	11434.7	11280.4	11297.5	11423.3	11480.5
25°	10972.7	11026.5	11075.7	11097.4	11015.0	10810.3	10844.6	10952.1	11024.2
27.5°	10335.8	10379.2	10466.1	10468.4	10355.2	10142.5	10171.1	10309.4	10327.7
30°	9516.9	9557.0	9633.6	9616.4	9507.8	9255.1	9277.9	9412.9	9443.8
32.5°	8514.0	8528.9	8549.5	8543.7	8411.1	8292.2	8245.3	8261.3	8272.7
35°	7411.6	7437.9	7305.2	7233.2	7245.8	7256.1	7145.1	6980.5	6883.3
37.5°	6343.5	6217.7	6054.2	5998.1	6102.2	6136.5	6035.9	5790.0	5699.6
40°	5182.7	5070.7	4941.4	4951.7	4949.5	4973.5	4846.5	4756.2	4725.3
42.5°	3988.8	3990.0	4074.6	4016.3	4004.8	3837.9	3788.7	3839.0	3893.9
45°	3098.0	3200.9	3266.1	3248.9	3179.2	3029.4	3029.4	3117.4	3107.1
47.5°	2550.2	2586.8	2636.0	2632.5	2582.2	2472.4	2490.7	2551.3	2582.2
50°	2155.7	2171.7	2194.5	2175.1	2144.2	2075.6	2074.5	2116.8	2135.1
52.5°	1803.4	1812.6	1806.9	1796.6	1779.4	1742.8	1731.4	1766.8	1771.4
55°	1507.2	1524.4	1511.8	1483.2	1479.8	1446.6	1445.5	1474.1	1467.2
57.5°	1255.7	1238.5	1221.4	1197.3	1193.9	1183.6	1195.0	1199.6	1192.8
60°	1045.2	1046.4	1013.2	990.3	988.1	973.2	989.2	1001.8	1001.8
62.5°	841.7	837.1	816.5	782.2	787.9	782.2	789.1	791.4	781.1
65°	579.8	580.9	552.4	511.2	512.3	507.8	497.5	513.5	518.0
67.5°	308.8	306.5	284.8	269.9	264.2	266.5	277.9	281.3	268.7
70°	168.1	162.4	167.0	151.0	154.4	148.7	154.4	163.5	160.1
72.5°	85.8	91.5	82.3	75.5	84.6	83.5	97.2	89.2	80.1
75°	45.7	49.2	58.3	53.7	56.0	53.7	54.9	51.5	45.7
77.5°	33.2	36.6	42.3	41.2	40.0	37.7	42.3	46.9	37.7
80°	19.4	24.0	26.3	30.9	27.4	30.9	35.5	28.6	22.9
82.5°	12.6	19.4	19.4	20.6	29.7	19.4	32.0	28.6	22.9
85°	2.3	3.4	13.7	8.0	6.9	20.6	19.4	14.9	4.6
87.5°	0.0	8.0	18.3	9.1	14.9	13.7	19.4	20.6	4.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)