

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: P248147

Luminaire Tested: **LD8B150D010 ER8B150935 8LBS0WH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P248147  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-94)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD8B150D010 ER8B150935 8LBS0WH  
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
90 CRI 3500 CCT WITH WHEAT TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 15410.0 lumens  
Efficiency: N/A  
Efficacy: 97.2 lumens/watt  
Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.23  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

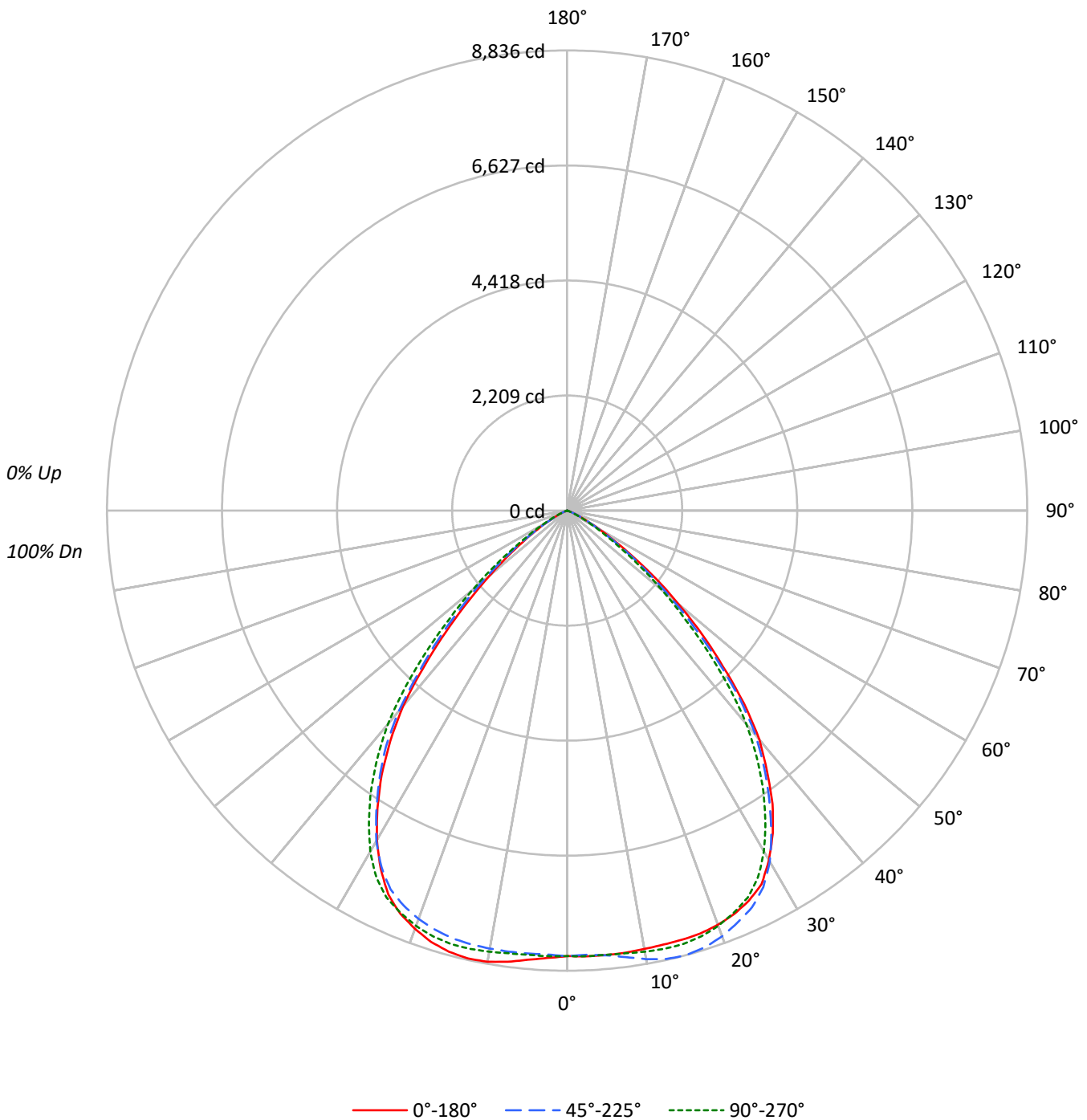
Input Watts (W): 158.5  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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	103	110	107	104	102	103	101	99	99	97	96	96	94	93	91					91			
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	86	84	82					82			
3	98	90	84	79	96	89	83	79	86	81	78	84	80	76	81	78	75	73					73			
4	92	82	76	71	90	81	75	70	79	74	69	77	72	68	75	71	68	66					66			
5	86	75	68	63	84	74	68	63	72	67	62	71	66	62	69	65	61	59					59			
6	80	69	62	57	78	68	61	56	67	61	56	65	60	56	64	59	55	53					53			
7	75	64	56	51	73	63	56	51	62	55	51	60	55	50	59	54	50	48					48			
8	70	59	52	47	69	58	51	46	57	51	46	56	50	46	55	50	46	44					44			
9	66	54	47	43	65	54	47	43	53	47	42	52	46	42	51	46	42	40					40			
10	62	51	44	39	61	50	44	39	49	43	39	48	43	39	48	42	39	37					37			

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

	0°	90°	180°
0°	263805	263805	263805
5°	265209	265026	267954
10°	267661	269265	275433
15°	272351	275071	279917
20°	277772	278497	280400
25°	281155	279035	276599
30°	275863	269123	260071
35°	258808	247281	233767
40°	231195	215544	197349
45°	184384	165972	143845
50°	133571	114017	92866
55°	82846	67395	53272
60°	42597	33501	26772
65°	18168	13630	10456
70°	5770	2849	1848
75°	1525	917	917
80°	1208	764	604
85°	920	318	318



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	820.3	5.3
10°-20°	2441.4	15.8
20°-30°	3752.7	24.4
30°-40°	4056.6	26.3
40°-50°	2919.1	18.9
50°-60°	1177.9	7.6
60°-70°	226.5	1.5
70°-80°	13.5	0.1
80°-90°	1.9	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°	7014.5	45.5
0°-40°	11071.1	71.8
0°-60°	15168.1	98.4
0°-90°	15410.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15410.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	8555	8555	8555	8555	8555	
5°	8568	8570	8562	8537	8656	817
15°	8531	8836	8616	8503	8768	2415
25°	8263	8405	8201	8025	8130	3791
35°	6875	6766	6569	6285	6210	4257
45°	4228	4103	3806	3494	3298	3266
55°	1541	1425	1254	1083	991	1436
65°	249	254	187	146	143	291
75°	13	10	8	8	8	21
85°	3	2	1	1	1	3
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°	8555.0	8555.0	8555.0	8555.0	8555.0	8555.0	8555.0	8555.0	8555.0
2.5°	8567.8	8555.9	8538.8	8538.0	8565.3	8549.9	8531.2	8550.8	8599.4
5°	8567.8	8569.5	8570.4	8562.7	8561.9	8536.3	8537.1	8590.0	8656.5
7.5°	8561.9	8595.1	8647.1	8635.2	8575.5	8519.2	8542.3	8648.9	8737.5
10°	8548.2	8625.8	8745.2	8727.3	8599.4	8503.9	8540.6	8688.9	8796.4
12.5°	8536.3	8642.9	8819.4	8798.1	8619.0	8493.6	8530.3	8694.1	8810.0
15°	8531.2	8646.3	8836.5	8810.0	8616.4	8473.2	8503.0	8656.5	8768.2
17.5°	8512.4	8619.9	8793.8	8761.4	8572.1	8425.4	8438.2	8578.1	8683.8
20°	8464.7	8556.8	8699.2	8654.8	8486.8	8339.3	8343.6	8449.3	8544.8
22.5°	8383.6	8456.1	8559.3	8516.7	8359.8	8225.9	8208.0	8296.7	8376.8
25°	8263.4	8322.2	8405.0	8358.9	8201.1	8064.7	8024.6	8080.9	8129.5
27.5°	8086.9	8107.3	8154.2	8083.5	7937.6	7803.8	7720.2	7728.7	7754.3
30°	7747.5	7780.7	7785.0	7704.0	7558.2	7402.9	7326.2	7283.6	7304.0
32.5°	7348.4	7339.0	7296.4	7198.3	7084.0	6960.4	6815.4	6766.8	6777.9
35°	6875.1	6852.9	6765.9	6672.1	6568.9	6417.1	6285.0	6213.3	6209.9
37.5°	6298.6	6268.8	6211.6	6082.0	5987.3	5859.4	5715.3	5636.0	5576.3
40°	5743.4	5696.5	5629.2	5474.0	5354.6	5176.4	5028.8	4918.8	4902.6
42.5°	5027.1	5004.1	4907.7	4751.7	4602.4	4391.8	4220.4	4128.3	4080.5
45°	4228.1	4228.1	4102.7	3965.4	3805.9	3649.0	3493.8	3356.5	3298.5
47.5°	3512.6	3423.9	3305.4	3158.7	3041.9	2931.0	2766.4	2597.6	2558.3
50°	2784.3	2728.0	2588.2	2448.3	2376.7	2270.9	2141.3	1977.6	1935.8
52.5°	2151.6	2062.9	1941.8	1837.7	1770.4	1687.6	1546.9	1435.2	1413.9
55°	1541.0	1495.8	1425.0	1339.7	1253.6	1166.6	1083.0	1019.1	990.9
57.5°	1055.7	1040.4	981.5	931.2	847.7	770.9	694.2	673.7	675.4
60°	690.7	689.9	660.9	615.7	543.2	473.3	437.5	427.2	434.1
62.5°	417.9	425.5	417.9	391.4	336.0	282.3	256.7	261.8	257.5
65°	249.0	256.7	254.1	220.0	186.8	163.7	145.8	139.0	143.3
67.5°	145.0	140.7	129.6	113.4	93.0	76.7	64.8	58.8	59.7
70°	64.0	60.5	54.6	41.8	31.6	25.6	21.3	19.6	20.5
72.5°	23.9	23.0	19.6	16.2	13.6	11.1	10.2	10.2	10.2
75°	12.8	11.9	10.2	8.5	7.7	7.7	7.7	7.7	7.7
77.5°	9.4	8.5	7.7	6.8	6.0	5.1	5.1	5.1	5.1
80°	6.8	6.0	5.1	4.3	4.3	3.4	3.4	3.4	3.4
82.5°	4.3	4.3	3.4	2.6	2.6	1.7	1.7	1.7	1.7
85°	2.6	2.6	1.7	1.7	0.9	0.9	0.9	0.9	0.9
87.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)