

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: P248086

Luminaire Tested: **LD8B200D010 ER8B2009727 8LBS0WMH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P248086  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-93)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD8B200D010 ER8B2009727 8LBS0WMH  
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
97 CRI 2700 CCT WITH WARM HAZE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 16045.0 lumens  
Efficiency: N/A  
Efficacy: 71.9 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.22  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

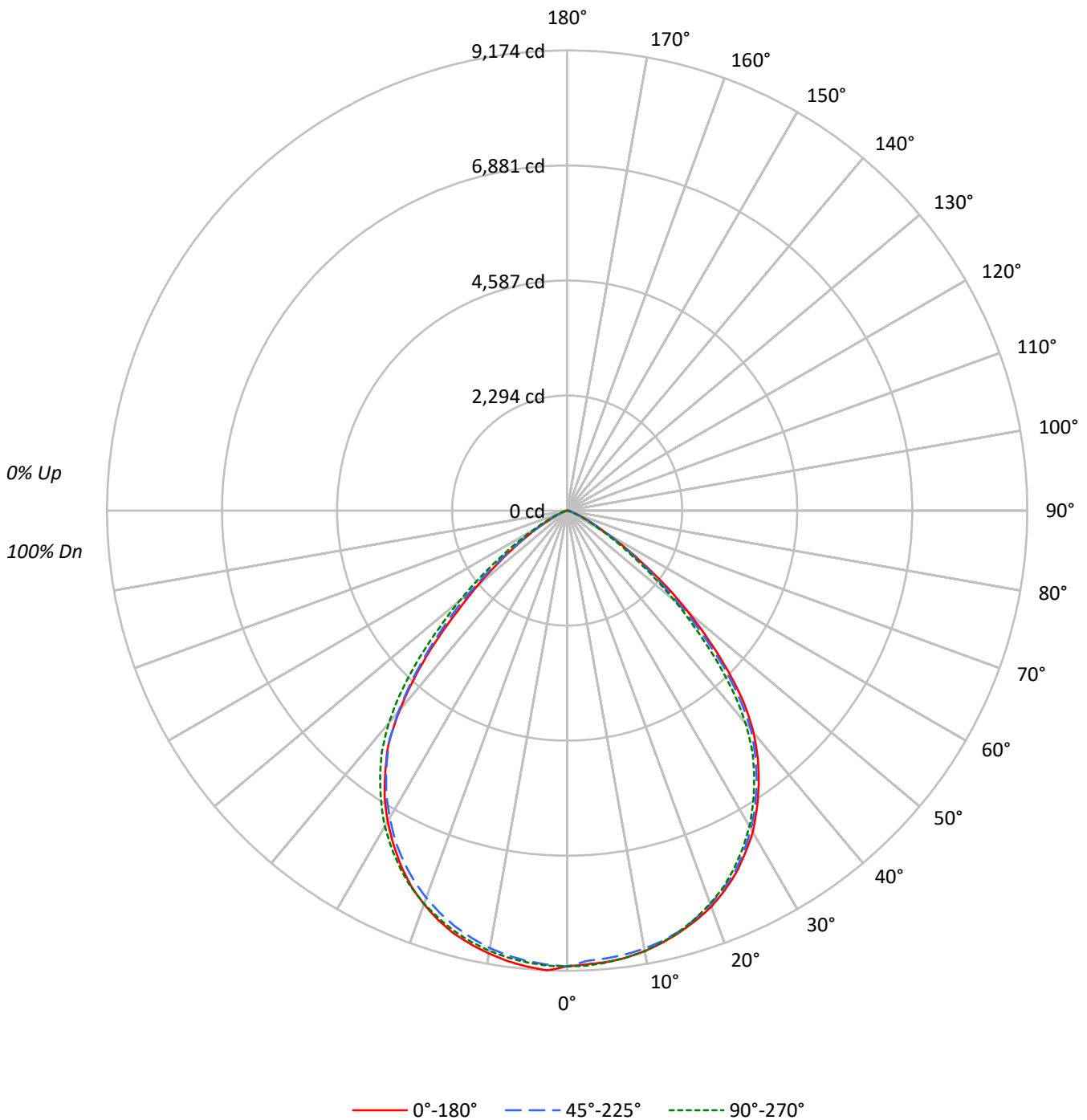
Input Watts (W): 223.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	112	109	106	103	109	106	104	101	102	100	98	99	97	95	95	94	92	90
2	105	99	93	89	102	97	92	88	93	90	86	90	87	84	87	85	83	81
3	97	89	83	78	95	88	82	77	85	80	76	83	78	75	80	77	74	72
4	91	81	74	69	89	80	74	69	78	72	68	76	71	67	74	69	66	64
5	85	74	67	61	83	73	66	61	71	65	61	69	64	60	68	63	59	58
6	79	68	60	55	77	67	60	55	65	59	54	64	58	54	62	57	54	52
7	74	62	55	50	72	62	55	50	60	54	49	59	53	49	58	53	49	47
8	69	57	50	45	68	57	50	45	56	49	45	54	49	45	53	48	44	43
9	65	53	46	41	64	53	46	41	52	45	41	51	45	41	50	44	41	39
10	61	49	42	38	60	49	42	38	48	42	38	47	41	37	46	41	37	36

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

	0°	90°	180°
0°	Luminaire represents a point source (luminous area is zero).		
5°	No luminance values can be calculated.		
10°			
15°			
20°			
25°			
30°			
35°			
40°			
45°			
50°			
55°			
60°			
65°			
70°			
75°			
80°			
85°			



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	858.2	5.3
10°-20°	2444.4	15.2
20°-30°	3611.2	22.5
30°-40°	4024.3	25.1
40°-50°	3178.1	19.8
50°-60°	1467.6	9.1
60°-70°	377.0	2.3
70°-80°	72.6	0.5
80°-90°	11.4	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°	6913.9	43.1
0°-40°	10938.2	68.2
0°-60°	15584.0	97.1
0°-90°	16045.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	16045.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	9088	9088	9088	9088	9088	
5°	9035	8963	9044	9016	9125	859
15°	8698	8677	8682	8591	8729	2455
25°	7969	7932	7874	7716	7826	3662
35°	6662	6588	6501	6285	6321	4148
45°	4552	4419	4189	3855	3720	3474
55°	1853	1747	1615	1383	1301	1717
65°	402	408	360	275	256	442
75°	67	70	72	55	45	80
85°	10	10	8	5	4	14
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°	9087.7	9087.7	9087.7	9087.7	9087.7	9087.7	9087.7	9087.7	9087.7
2.5°	9053.4	9096.0	8987.6	9075.6	9079.3	9017.3	9059.9	9110.9	9173.9
5°	9034.9	9078.4	8962.6	9044.1	9044.1	8976.5	9016.3	9060.8	9124.8
7.5°	8991.3	9038.6	8924.6	9000.6	8988.5	8914.4	8949.6	8993.2	9061.7
10°	8919.0	8977.4	8866.2	8938.5	8913.5	8828.2	8858.8	8904.2	8968.2
12.5°	8819.9	8889.4	8785.6	8848.6	8808.8	8711.5	8736.5	8794.9	8857.9
15°	8697.6	8768.9	8677.2	8731.9	8681.8	8573.4	8591.0	8650.3	8729.1
17.5°	8561.4	8630.8	8528.0	8587.3	8520.6	8408.5	8414.9	8483.5	8554.9
20°	8404.7	8462.2	8356.6	8413.1	8338.0	8214.8	8215.7	8276.9	8351.0
22.5°	8199.0	8259.3	8149.9	8197.2	8128.6	7997.0	7981.3	8040.6	8111.9
25°	7969.2	8032.2	7932.2	7948.8	7873.8	7737.6	7716.2	7759.8	7826.5
27.5°	7694.0	7756.1	7643.0	7664.3	7581.9	7451.2	7422.5	7445.7	7498.5
30°	7401.2	7440.1	7332.6	7350.2	7270.5	7115.8	7072.2	7103.7	7155.6
32.5°	7040.7	7068.5	6976.8	6986.0	6899.9	6766.4	6709.0	6718.2	6771.1
35°	6661.7	6676.5	6587.6	6589.4	6501.4	6366.1	6284.6	6279.9	6320.7
37.5°	6243.8	6254.0	6164.1	6159.5	6068.7	5922.2	5837.0	5822.2	5847.2
40°	5785.1	5799.0	5705.4	5675.8	5536.8	5370.0	5231.0	5205.0	5194.8
42.5°	5229.1	5191.1	5092.9	5042.8	4902.9	4688.9	4560.1	4521.1	4487.8
45°	4551.7	4521.1	4419.2	4306.2	4189.4	4028.2	3854.9	3748.3	3719.6
47.5°	3841.0	3804.8	3658.4	3559.3	3444.4	3370.2	3184.0	3020.0	2948.6
50°	3150.6	3110.8	2947.7	2874.5	2806.8	2696.6	2515.9	2368.5	2341.7
52.5°	2512.2	2451.9	2312.0	2236.0	2175.8	2053.5	1890.4	1805.1	1759.7
55°	1853.3	1844.0	1746.7	1692.1	1615.2	1517.9	1382.6	1318.6	1301.0
57.5°	1350.1	1315.8	1278.8	1232.4	1165.7	1043.4	960.0	911.8	908.1
60°	907.2	918.3	918.3	867.3	797.8	718.2	651.4	625.5	626.4
62.5°	608.8	616.2	614.4	592.1	538.4	473.5	430.0	411.4	412.4
65°	402.2	400.3	407.7	392.0	359.5	314.1	275.2	265.0	255.8
67.5°	255.8	258.5	255.8	247.4	228.0	195.5	169.6	153.8	149.2
70°	155.7	152.0	152.9	151.0	137.1	121.4	102.9	89.9	86.2
72.5°	93.6	96.4	97.3	100.1	98.2	87.1	74.1	64.9	63.0
75°	66.7	67.6	70.4	73.2	72.3	64.9	54.7	48.2	45.4
77.5°	50.0	50.0	51.9	55.6	52.8	46.3	38.9	33.4	31.5
80°	34.3	35.2	36.1	36.1	33.4	29.7	23.2	19.5	17.6
82.5°	20.4	21.3	20.4	20.4	18.5	14.8	11.1	10.2	9.3
85°	10.2	10.2	10.2	10.2	8.3	6.5	4.6	3.7	3.7
87.5°	4.6	4.6	4.6	3.7	2.8	1.9	1.9	0.9	0.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)