

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: P247634

Luminaire Tested: **LD8B80D010 ER8B80840 8LBS0B**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247634  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-87)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD8B80D010 ER8B80840 8LBS0B  
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
80 CRI 4000 CCT WITH SPECULAR BLACK TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7725.0 lumens  
Efficiency: N/A  
Efficacy: 103.8 lumens/watt  
Spacing Criteria (0/90/45): 1.17 / 1.18 / 1.23  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

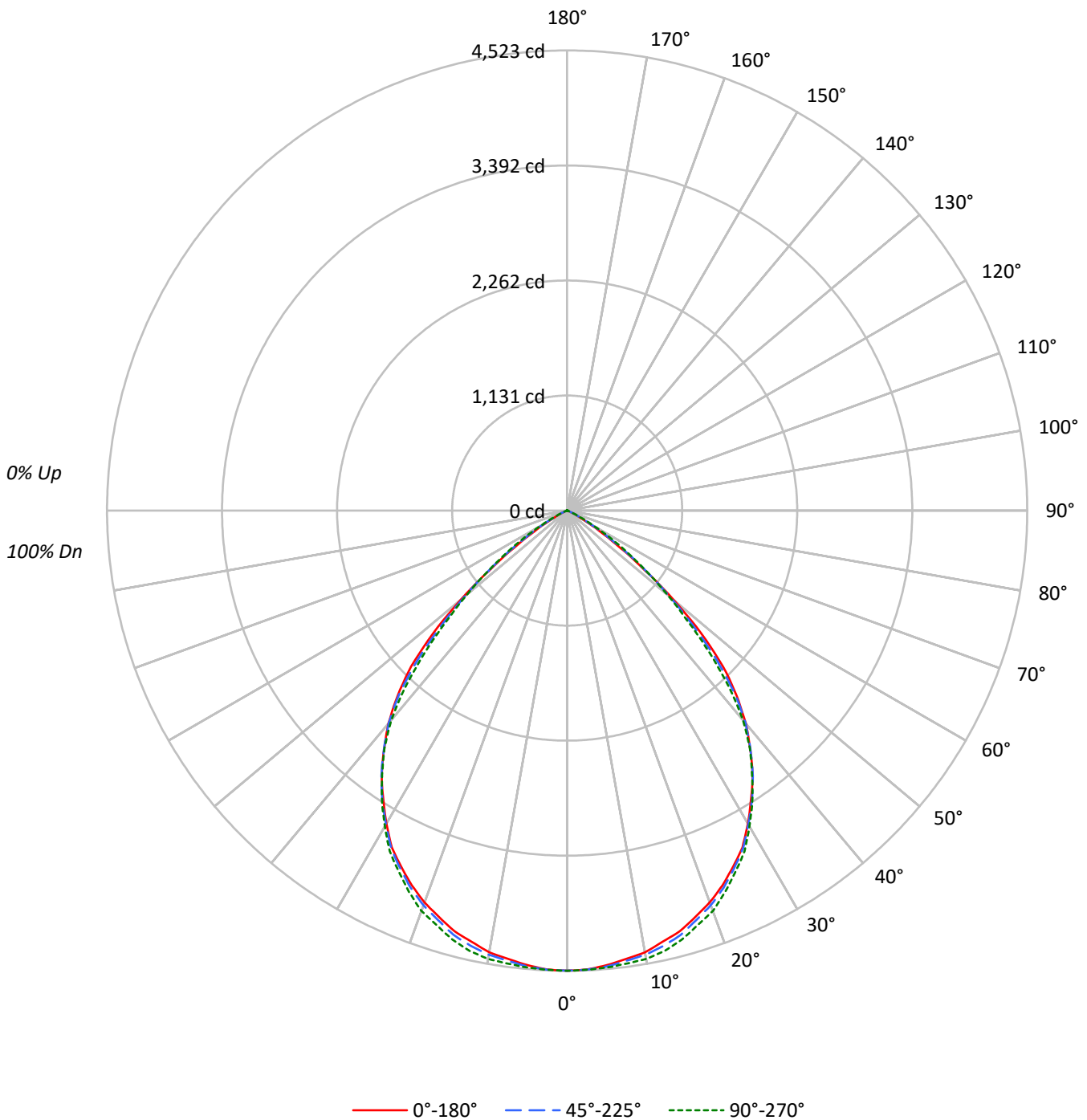
Input Watts (W): 74.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	110	107	104	102	103	101	99	99	97	96	95	94	93	91
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	86	83	82
3	98	90	84	79	96	89	83	79	86	81	77	83	79	76	81	78	75	73
4	91	82	75	70	89	81	75	70	79	73	69	77	72	68	75	71	67	65
5	85	75	68	63	84	74	67	62	72	66	62	70	65	61	69	64	61	59
6	80	69	62	56	78	68	61	56	66	60	56	65	59	55	63	59	55	53
7	75	63	56	51	73	63	56	51	61	55	50	60	54	50	59	54	50	48
8	70	58	51	46	69	58	51	46	57	50	46	55	50	46	54	49	45	44
9	66	54	47	42	64	54	47	42	52	46	42	51	46	42	51	45	42	40
10	62	50	43	39	61	50	43	39	49	43	39	48	42	38	47	42	38	37

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

	0°	45°	90°
0°	139476	139476	139476
5°	138842	139210	139547
10°	138052	138797	140102
15°	136658	137832	139323
20°	134474	135452	137440
25°	131350	132061	133242
30°	126493	126813	127625
35°	119633	119821	119336
40°	109934	109813	108291
45°	94532	90676	86516
50°	65723	63386	61621
55°	34289	37278	39472
60°	13907	16417	19057
65°	4422	5436	5801
70°	631	361	180
75°	0	0	0
80°	1580	355	533
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	427.2	5.5
10°-20°	1215.6	15.7
20°-30°	1785.7	23.1
30°-40°	1977.0	25.6
40°-50°	1575.6	20.4
50°-60°	645.6	8.4
60°-70°	95.1	1.2
70°-80°	1.4	0.0
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°	3428.4	44.4
0°-40°	5405.5	70.0
0°-60°	7626.7	98.7
0°-90°	7725.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7725.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4523	4523	4523	4523	4523	
5°	4485	4493	4497	4504	4508	426
15°	4281	4284	4318	4358	4364	1205
25°	3860	3856	3881	3904	3916	1775
35°	3178	3174	3183	3179	3170	1975
45°	2168	2148	2079	2002	1984	1627
55°	638	660	693	733	734	614
65°	61	64	74	82	80	80
75°	0	0	0	0	0	3
85°	0	0	0	4	0	3
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	4523.1	4523.1	4523.1	4523.1	4523.1
2.5°	4515.2	4516.2	4516.2	4511.2	4517.2
5°	4485.4	4493.3	4497.3	4504.3	4508.2
7.5°	4443.7	4441.7	4462.5	4487.4	4490.3
10°	4408.9	4404.9	4432.7	4465.5	4474.4
12.5°	4340.3	4345.3	4381.1	4414.8	4432.7
15°	4280.7	4283.7	4317.5	4358.2	4364.2
17.5°	4188.3	4197.3	4220.1	4262.8	4270.8
20°	4097.9	4101.9	4127.7	4162.5	4188.3
22.5°	3987.7	3994.6	4014.5	4045.3	4058.2
25°	3860.5	3856.5	3881.4	3904.2	3916.1
27.5°	3731.4	3724.4	3743.3	3765.1	3776.1
30°	3552.5	3550.6	3561.5	3575.4	3584.3
32.5°	3364.8	3369.7	3380.7	3384.6	3387.6
35°	3178.0	3174.0	3183.0	3179.0	3170.1
37.5°	2956.5	2959.5	2959.5	2955.5	2951.5
40°	2731.0	2733.9	2728.0	2706.1	2690.2
42.5°	2466.7	2468.7	2437.9	2389.2	2356.4
45°	2167.7	2147.8	2079.3	2001.8	1983.9
47.5°	1791.2	1757.4	1685.9	1627.3	1606.4
50°	1370.0	1345.1	1321.3	1290.5	1284.5
52.5°	960.7	973.6	982.5	992.4	989.5
55°	637.8	659.6	693.4	733.2	734.2
57.5°	383.5	408.3	451.0	494.7	515.6
60°	225.5	235.4	266.2	299.0	309.0
62.5°	122.2	125.2	139.1	171.9	166.9
65°	60.6	63.6	74.5	81.5	79.5
67.5°	29.8	32.8	34.8	44.7	36.8
70°	7.0	2.0	4.0	5.0	2.0
72.5°	0.0	0.0	2.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0
77.5°	2.0	0.0	0.0	0.0	4.0
80°	8.9	6.0	2.0	2.0	3.0
82.5°	3.0	1.0	3.0	1.0	0.0
85°	0.0	0.0	0.0	4.0	0.0
87.5°	5.0	1.0	1.0	3.0	5.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)