

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: P247109

Luminaire Tested: **LD8B120D010 ER8B120840 8LBSOLI**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247109  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-82)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD8B120D010 ER8B120840 8LBS0LI  
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
80 CRI 4000 CCT WITH SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 13760.0 lumens  
Efficiency: N/A  
Efficacy: 116.3 lumens/watt  
Spacing Criteria (0/90/45): 1.28 / 1.31 / 1.25  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

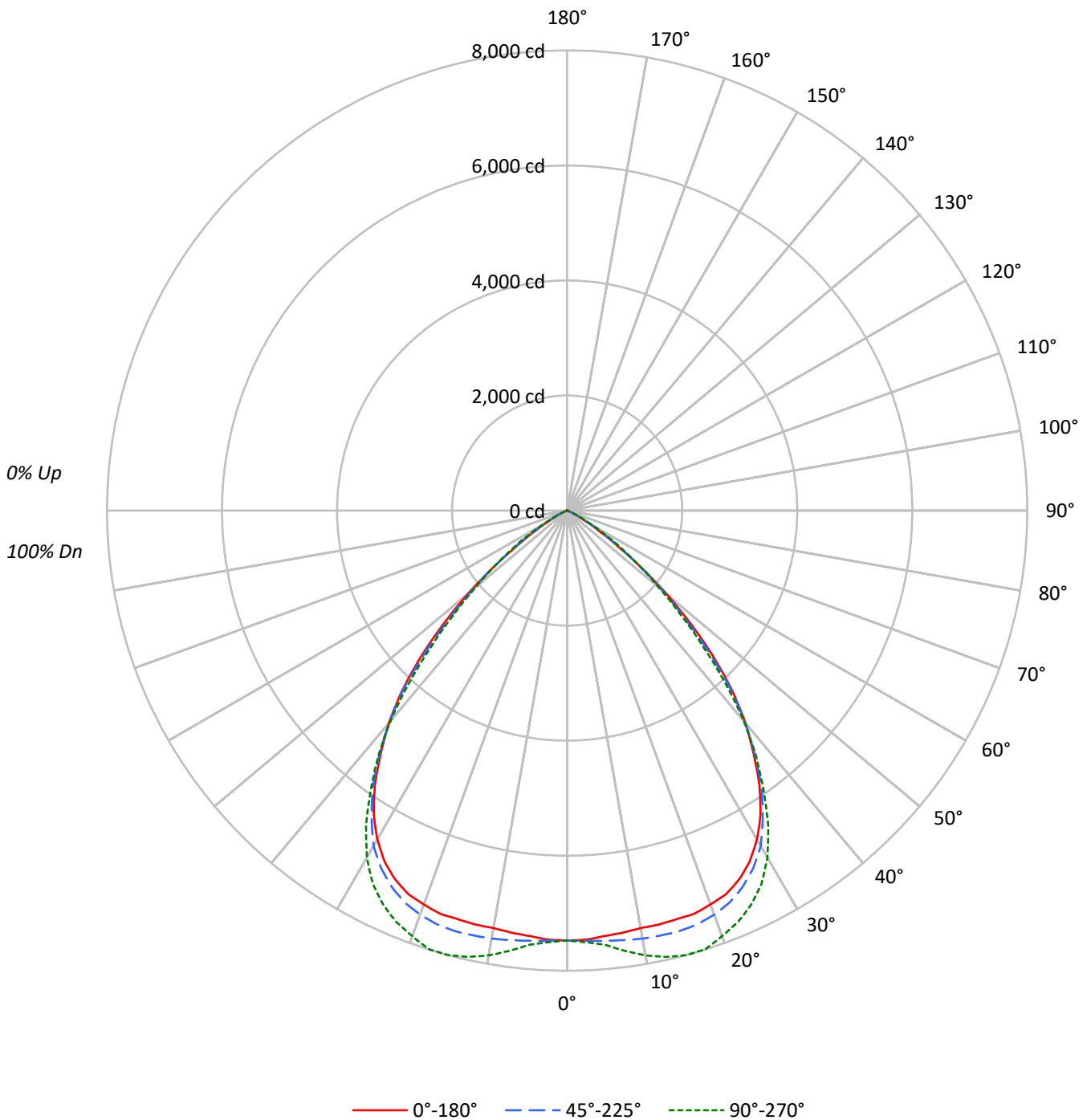
Input Watts (W): 118.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	95	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	77	84	80	76	81	78	75	73					73			
4	92	82	76	70	90	81	75	70	79	73	69	77	72	68	75	71	67	66					66			
5	86	75	68	63	84	74	68	63	72	67	62	71	65	61	69	64	61	59					59			
6	80	69	62	57	78	68	61	56	67	60	56	65	60	55	64	59	55	53					53			
7	75	64	56	51	73	63	56	51	61	55	51	60	55	50	59	54	50	48					48			
8	70	59	51	46	69	58	51	46	57	51	46	56	50	46	55	49	46	44					44			
9	66	54	47	42	65	54	47	42	53	47	42	52	46	42	51	46	42	40					40			
10	62	50	44	39	61	50	43	39	49	43	39	48	43	39	47	42	38	37					37			

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

	0°	45°	90°
0°	230480	230480	230480
5°	229865	232400	234576
10°	230782	236600	245859
15°	234779	241554	255383
20°	239125	245317	258381
25°	240710	245593	257345
30°	235026	239715	247844
35°	219383	221641	224288
40°	194000	193823	192349
45°	156879	152410	145711
50°	107771	103631	100258
55°	55471	59014	63180
60°	23109	27352	30688
65°	8967	9507	11215
70°	2371	2245	3038
75°	1048	1918	1739
80°	1563	1811	0
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	719.2	5.2
10°-20°	2153.3	15.6
20°-30°	3332.0	24.2
30°-40°	3649.6	26.5
40°-50°	2670.0	19.4
50°-60°	1047.6	7.6
60°-70°	169.6	1.2
70°-80°	15.6	0.1
80°-90°	3.2	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°	6204.5	45.1
0°-40°	9854.1	71.6
0°-60°	13571.7	98.6
0°-90°	13760.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13760.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	7474	7474	7474	7474	7474	
5°	7426	7444	7508	7562	7578	707
15°	7354	7403	7566	7848	8000	2083
25°	7075	7097	7218	7436	7564	3244
35°	5828	5838	5888	5943	5958	3609
45°	3597	3592	3495	3388	3341	2739
55°	1032	1054	1098	1137	1175	1015
65°	123	120	130	143	154	149
75°	9	13	16	12	15	15
85°	0	0	0	0	0	4
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	7474.3	7474.3	7474.3	7474.3	7474.3
2.5°	7467.0	7471.4	7486.0	7500.6	7509.4
5°	7426.0	7443.5	7507.9	7562.1	7578.2
7.5°	7401.1	7430.4	7531.4	7667.5	7720.2
10°	7370.4	7412.8	7556.2	7749.4	7851.9
12.5°	7371.8	7412.8	7565.0	7816.8	7948.5
15°	7354.3	7402.6	7566.5	7847.5	7999.7
17.5°	7349.9	7373.3	7540.1	7825.5	7993.8
20°	7287.0	7319.1	7475.7	7728.9	7873.8
22.5°	7218.2	7232.8	7376.2	7625.0	7748.0
25°	7074.7	7096.7	7218.2	7436.2	7563.6
27.5°	6877.2	6881.6	7004.5	7206.5	7317.7
30°	6600.6	6622.5	6732.3	6881.6	6960.6
32.5°	6258.1	6255.2	6326.9	6457.1	6508.3
35°	5827.8	5838.0	5887.8	5943.4	5958.1
37.5°	5322.9	5336.1	5369.7	5388.7	5401.9
40°	4819.4	4819.4	4815.0	4794.5	4778.4
42.5°	4245.7	4226.7	4204.7	4114.0	4074.5
45°	3597.4	3591.5	3494.9	3388.1	3341.3
47.5°	2915.4	2883.2	2782.2	2695.8	2676.8
50°	2246.5	2212.9	2160.2	2117.7	2089.9
52.5°	1601.1	1576.2	1598.2	1598.2	1595.3
55°	1031.8	1053.7	1097.7	1137.2	1175.2
57.5°	654.2	683.5	750.8	802.0	815.2
60°	374.7	396.6	443.5	488.8	497.6
62.5°	235.6	237.1	267.8	294.2	310.3
65°	122.9	120.0	130.3	143.4	153.7
67.5°	51.2	51.2	61.5	60.0	76.1
70°	26.3	22.0	24.9	29.3	33.7
72.5°	19.0	14.6	20.5	26.3	11.7
75°	8.8	13.2	16.1	11.7	14.6
77.5°	11.7	11.7	8.8	14.6	2.9
80°	8.8	5.9	10.2	4.4	0.0
82.5°	1.5	2.9	1.5	1.5	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	10.2	4.4	7.3	5.9	8.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)