

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: P247101

Luminaire Tested: **LD8B120D010 ER8B120830 8LBSOLI**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247101  
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 ER8B120830 8LBS0LI  
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
80 CRI 3000 CCT WITH SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 13319.0 lumens  
Efficiency: N/A  
Efficacy: 112.6 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

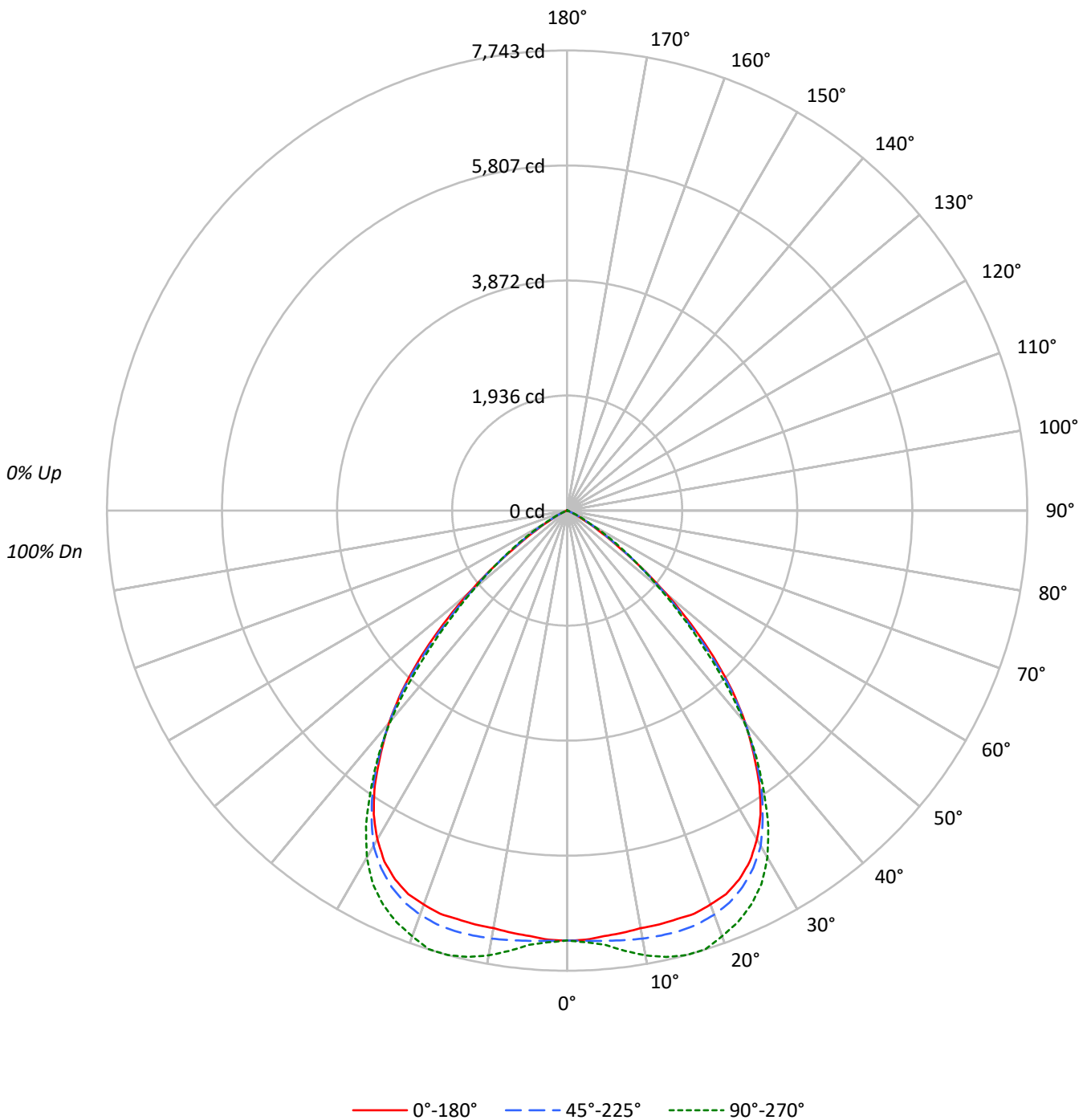
Input Watts (W): 118.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	223091	223091	223091
5°	222498	224953	227058
10°	223386	229019	237978
15°	227255	233812	247198
20°	231460	237458	250102
25°	232997	237720	249097
30°	227491	232031	239900
35°	212351	214538	217098
40°	187785	187612	186187
45°	151851	147525	141041
50°	104317	100306	97044
55°	53692	57122	61159
60°	22369	26470	29708
65°	8683	9201	10850
70°	2299	2173	2939
75°	1013	1859	1692
80°	1509	1758	0
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	696.1	5.2
10°-20°	2084.3	15.6
20°-30°	3225.2	24.2
30°-40°	3532.6	26.5
40°-50°	2584.4	19.4
50°-60°	1014.0	7.6
60°-70°	164.1	1.2
70°-80°	15.1	0.1
80°-90°	3.0	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°	6005.7	45.1
0°-40°	9538.2	71.6
0°-60°	13136.7	98.6
0°-90°	13319.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13319.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	7235	7235	7235	7235	7235	
5°	7188	7205	7267	7320	7335	685
15°	7119	7165	7324	7596	7743	2016
25°	6848	6869	6987	7198	7321	3140
35°	5641	5651	5699	5753	5767	3493
45°	3482	3476	3383	3280	3234	2652
55°	999	1020	1062	1101	1138	983
65°	119	116	126	139	149	144
75°	8	13	16	11	14	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°	7234.7	7234.7	7234.7	7234.7	7234.7
2.5°	7227.7	7231.9	7246.1	7260.2	7268.7
5°	7188.0	7205.0	7267.3	7319.7	7335.3
7.5°	7163.9	7192.2	7290.0	7421.7	7472.7
10°	7134.2	7175.2	7314.1	7501.1	7600.2
12.5°	7135.6	7175.2	7322.6	7566.2	7693.7
15°	7118.6	7165.3	7324.0	7596.0	7743.3
17.5°	7114.3	7137.0	7298.5	7574.7	7737.6
20°	7053.4	7084.6	7236.2	7481.2	7621.5
22.5°	6986.8	7001.0	7139.8	7380.7	7499.6
25°	6848.0	6869.2	6986.8	7197.9	7321.2
27.5°	6656.8	6661.0	6780.0	6975.5	7083.2
30°	6389.0	6410.3	6516.5	6661.0	6737.5
32.5°	6057.5	6054.7	6124.1	6250.2	6299.8
35°	5641.0	5650.9	5699.1	5752.9	5767.1
37.5°	5152.3	5165.0	5197.6	5216.0	5228.8
40°	4665.0	4665.0	4660.7	4640.9	4625.3
42.5°	4109.6	4091.2	4070.0	3982.2	3943.9
45°	3482.1	3476.4	3382.9	3279.5	3234.2
47.5°	2821.9	2790.8	2693.0	2609.4	2591.0
50°	2174.5	2141.9	2090.9	2049.9	2022.9
52.5°	1549.8	1525.7	1547.0	1547.0	1544.1
55°	998.7	1020.0	1062.5	1100.7	1137.6
57.5°	633.2	661.6	726.7	776.3	789.1
60°	362.7	383.9	429.2	473.2	481.7
62.5°	228.1	229.5	259.2	284.7	300.3
65°	119.0	116.2	126.1	138.8	148.7
67.5°	49.6	49.6	59.5	58.1	73.7
70°	25.5	21.2	24.1	28.3	32.6
72.5°	18.4	14.2	19.8	25.5	11.3
75°	8.5	12.7	15.6	11.3	14.2
77.5°	11.3	11.3	8.5	14.2	2.8
80°	8.5	5.7	9.9	4.2	0.0
82.5°	1.4	2.8	1.4	1.4	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	9.9	4.2	7.1	5.7	8.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)