

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: P247225

Luminaire Tested: **LSR8B120D010 EC8B120940 8LBS0H**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247225  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-83)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B120D010 EC8B120940 8LBS0H  
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
90 CRI 4000 CCT WITH SEMI-SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 12016.0 lumens  
Efficiency: N/A  
Efficacy: 101.6 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.22 / 1.23  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

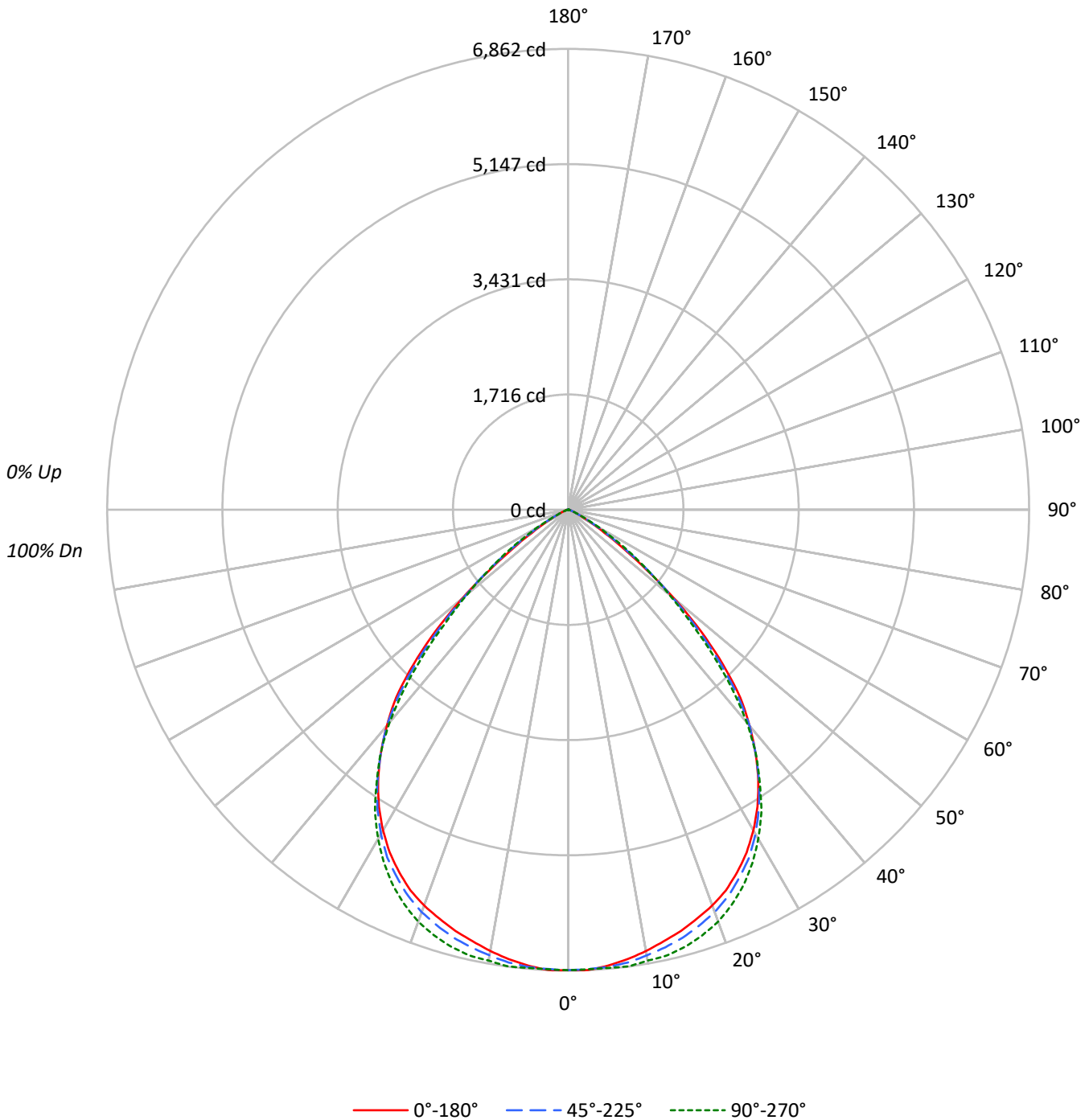
Input Watts (W): 118.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	100	98	99	97	95	95	94	93	91					91			
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	85	83	81					81			
3	98	90	84	79	96	88	83	78	86	81	77	83	79	76	81	77	74	73					73			
4	91	82	75	70	89	81	74	69	78	73	68	76	71	68	74	70	67	65					65			
5	85	75	68	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58					58			
6	79	69	61	56	78	68	61	56	66	60	55	64	59	55	63	58	54	53					53			
7	74	63	56	50	73	62	55	50	61	55	50	60	54	50	58	53	49	48					48			
8	70	58	51	46	68	57	51	46	56	50	45	55	49	45	54	49	45	43					43			
9	65	54	47	42	64	53	46	42	52	46	42	51	46	41	50	45	41	40					40			
10	62	50	43	38	60	50	43	38	49	42	38	48	42	38	47	42	38	36					36			

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

	0°	45°	90°
0°	211454	211454	211454
5°	210921	211531	211977
10°	208923	211018	213482
15°	207267	210536	215060
20°	205821	209221	214258
25°	202597	205410	209963
30°	196321	198472	201509
35°	185676	186516	187205
40°	169127	168970	166696
45°	142196	137905	131953
50°	98766	96560	93979
55°	52837	58412	61869
60°	25569	29054	32773
65°	11200	11295	11777
70°	6032	5563	5446
75°	5314	4849	3443
80°	231	923	0
85°	460	460	2335



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	649.6	5.4
10°-20°	1862.9	15.5
20°-30°	2779.6	23.1
30°-40°	3078.4	25.6
40°-50°	2400.7	20.0
50°-60°	1006.3	8.4
60°-70°	201.6	1.7
70°-80°	32.1	0.3
80°-90°	5.0	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°	5292.0	44.0
0°-40°	8370.4	69.7
0°-60°	11777.4	98.0
0°-90°	12016.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12016.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	6857	6857	6857	6857	6857	
5°	6814	6819	6834	6852	6848	646
15°	6492	6521	6595	6692	6737	1832
25°	5954	5978	6037	6130	6171	2736
35°	4932	4924	4955	4978	4973	3066
45°	3261	3246	3162	3065	3026	2467
55°	983	1021	1086	1130	1151	957
65°	154	154	155	167	161	185
75°	45	41	41	32	29	36
85°	1	3	1	0	7	5
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	6857.3	6857.3	6857.3	6857.3	6857.3
2.5°	6862.5	6849.4	6846.8	6854.7	6849.4
5°	6814.0	6819.2	6833.7	6852.0	6848.1
7.5°	6751.0	6760.2	6799.5	6846.8	6858.6
10°	6672.3	6691.9	6739.2	6793.0	6817.9
12.5°	6580.4	6606.7	6674.9	6752.3	6798.2
15°	6492.5	6521.4	6594.9	6691.9	6736.6
17.5°	6382.3	6420.3	6492.5	6597.5	6643.4
20°	6272.1	6306.2	6375.7	6478.1	6529.2
22.5°	6135.6	6160.5	6226.1	6312.7	6365.2
25°	5954.5	5978.1	6037.2	6130.4	6171.0
27.5°	5752.5	5780.0	5833.8	5898.1	5934.8
30°	5513.6	5535.9	5574.0	5631.7	5659.3
32.5°	5244.7	5246.0	5284.0	5327.3	5352.2
35°	4932.4	4924.5	4954.7	4978.3	4973.0
37.5°	4587.3	4588.6	4586.0	4588.6	4593.8
40°	4201.5	4183.1	4197.6	4164.8	4141.1
42.5°	3792.1	3773.7	3717.3	3645.1	3605.8
45°	3260.7	3246.3	3162.3	3065.2	3025.8
47.5°	2676.8	2632.2	2563.9	2481.3	2443.2
50°	2058.8	2053.5	2012.8	1993.2	1959.0
52.5°	1472.2	1472.2	1522.1	1514.2	1512.9
55°	982.8	1020.9	1086.5	1129.8	1150.8
57.5°	640.3	675.8	730.9	776.8	797.8
60°	414.6	431.7	471.1	506.5	531.4
62.5°	257.2	271.6	292.6	314.9	324.1
65°	153.5	153.5	154.8	166.6	161.4
67.5°	103.7	107.6	102.3	102.3	115.5
70°	66.9	63.0	61.7	60.4	60.4
72.5°	43.3	36.7	39.4	42.0	36.7
75°	44.6	40.7	40.7	31.5	28.9
77.5°	15.7	17.1	11.8	9.2	7.9
80°	1.3	5.2	5.2	1.3	0.0
82.5°	15.7	14.4	11.8	18.4	11.8
85°	1.3	2.6	1.3	0.0	6.6
87.5°	0.0	0.0	0.0	1.3	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)