

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: P247229

Luminaire Tested: **LSR8B120D010 EC8B120950 8LBS0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247229
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 EC8B120950 8LBS0H
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
90 CRI 5000 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12441.0 lumens
Efficiency: N/A
Efficacy: 105.2 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

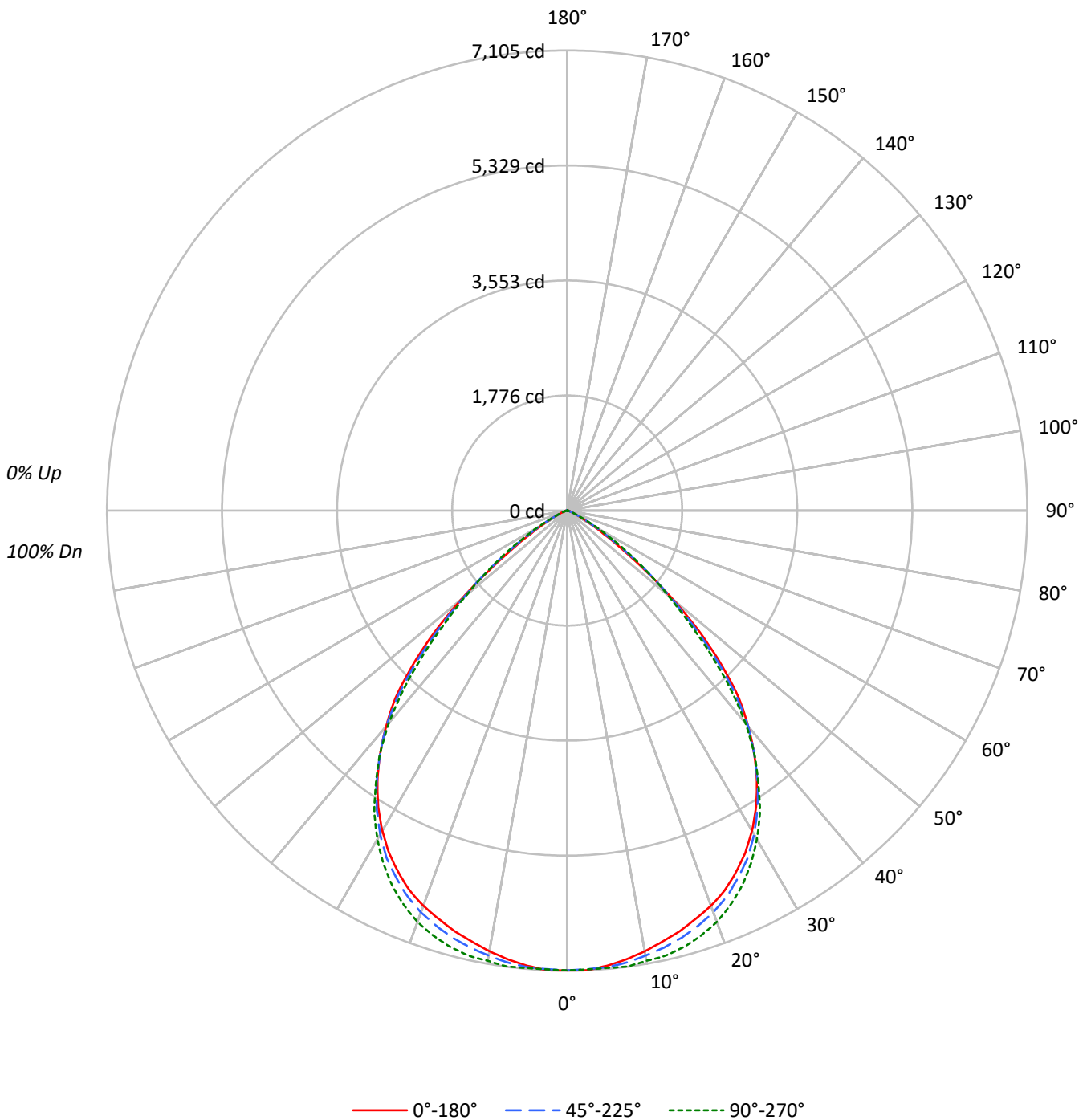
Input Watts (W): 118.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	218932	218932	218932
5°	218381	219013	219474
10°	216313	218480	221035
15°	214597	217981	222664
20°	213099	216620	221838
25°	209762	212674	217390
30°	203268	205490	208638
35°	192241	193111	193826
40°	175109	174944	172593
45°	147224	142781	136619
50°	102259	99975	97303
55°	54708	60476	64057
60°	26476	30078	33932
65°	11601	11696	12192
70°	6248	5761	5635
75°	5504	5016	3562
80°	249	959	0
85°	495	495	2406



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	672.6	5.4
10°-20°	1928.8	15.5
20°-30°	2877.9	23.1
30°-40°	3187.3	25.6
40°-50°	2485.6	20.0
50°-60°	1041.8	8.4
60°-70°	208.7	1.7
70°-80°	33.2	0.3
80°-90°	5.2	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°	5479.2	44.0
0°-40°	8666.5	69.7
0°-60°	12193.9	98.0
0°-90°	12441.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12441.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7100	7100	7100	7100	7100	
5°	7055	7060	7075	7094	7090	669
15°	6722	6752	6828	6929	6975	1896
25°	6165	6190	6251	6347	6389	2833
35°	5107	5099	5130	5154	5149	3174
45°	3376	3361	3274	3174	3133	2554
55°	1018	1057	1125	1170	1192	991
65°	159	159	160	172	167	192
75°	46	42	42	33	30	37
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°	7099.8	7099.8	7099.8	7099.8	7099.8
2.5°	7105.3	7091.7	7088.9	7097.1	7091.7
5°	7055.0	7060.4	7075.4	7094.4	7090.3
7.5°	6989.8	6999.3	7040.0	7088.9	7101.2
10°	6908.3	6928.6	6977.5	7033.2	7059.1
12.5°	6813.2	6840.3	6911.0	6991.1	7038.7
15°	6722.1	6752.0	6828.1	6928.6	6974.8
17.5°	6608.0	6647.4	6722.1	6830.8	6878.4
20°	6493.9	6529.2	6601.2	6707.2	6760.2
22.5°	6352.6	6378.4	6446.4	6536.0	6590.4
25°	6165.1	6189.6	6250.7	6347.2	6389.3
27.5°	5955.9	5984.4	6040.1	6106.7	6144.8
30°	5708.7	5731.8	5771.1	5830.9	5859.5
32.5°	5430.2	5431.5	5470.9	5515.7	5541.6
35°	5106.8	5098.7	5129.9	5154.4	5148.9
37.5°	4749.5	4750.9	4748.2	4750.9	4756.3
40°	4350.1	4331.1	4346.0	4312.1	4287.6
42.5°	3926.2	3907.2	3848.8	3774.1	3733.3
45°	3376.0	3361.1	3274.1	3173.6	3132.8
47.5°	2771.5	2725.3	2654.6	2569.0	2529.6
50°	2131.6	2126.1	2084.0	2063.6	2028.3
52.5°	1524.3	1524.3	1575.9	1567.8	1566.4
55°	1017.6	1057.0	1124.9	1169.7	1191.5
57.5°	663.0	699.7	756.7	804.3	826.0
60°	429.3	447.0	487.7	524.4	550.2
62.5°	266.3	281.2	303.0	326.1	335.6
65°	159.0	159.0	160.3	172.5	167.1
67.5°	107.3	111.4	106.0	106.0	119.6
70°	69.3	65.2	63.9	62.5	62.5
72.5°	44.8	38.0	40.8	43.5	38.0
75°	46.2	42.1	42.1	32.6	29.9
77.5°	16.3	17.7	12.2	9.5	8.2
80°	1.4	5.4	5.4	1.4	0.0
82.5°	16.3	14.9	12.2	19.0	12.2
85°	1.4	2.7	1.4	0.0	6.8
87.5°	0.0	0.0	0.0	1.4	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)