

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: P247701

Luminaire Tested: **LSR8B120D010 EC8B120935 8LBW0MW**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247701
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-63)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B120D010 EC8B120935 8LBW0MW
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
90 CRI 3500 CCT WITH MATTE WHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10874.0 lumens
Efficiency: N/A
Efficacy: 91.9 lumens/watt
Spacing Criteria (0/90/45): 1.12 / 1.09 / 1.05
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

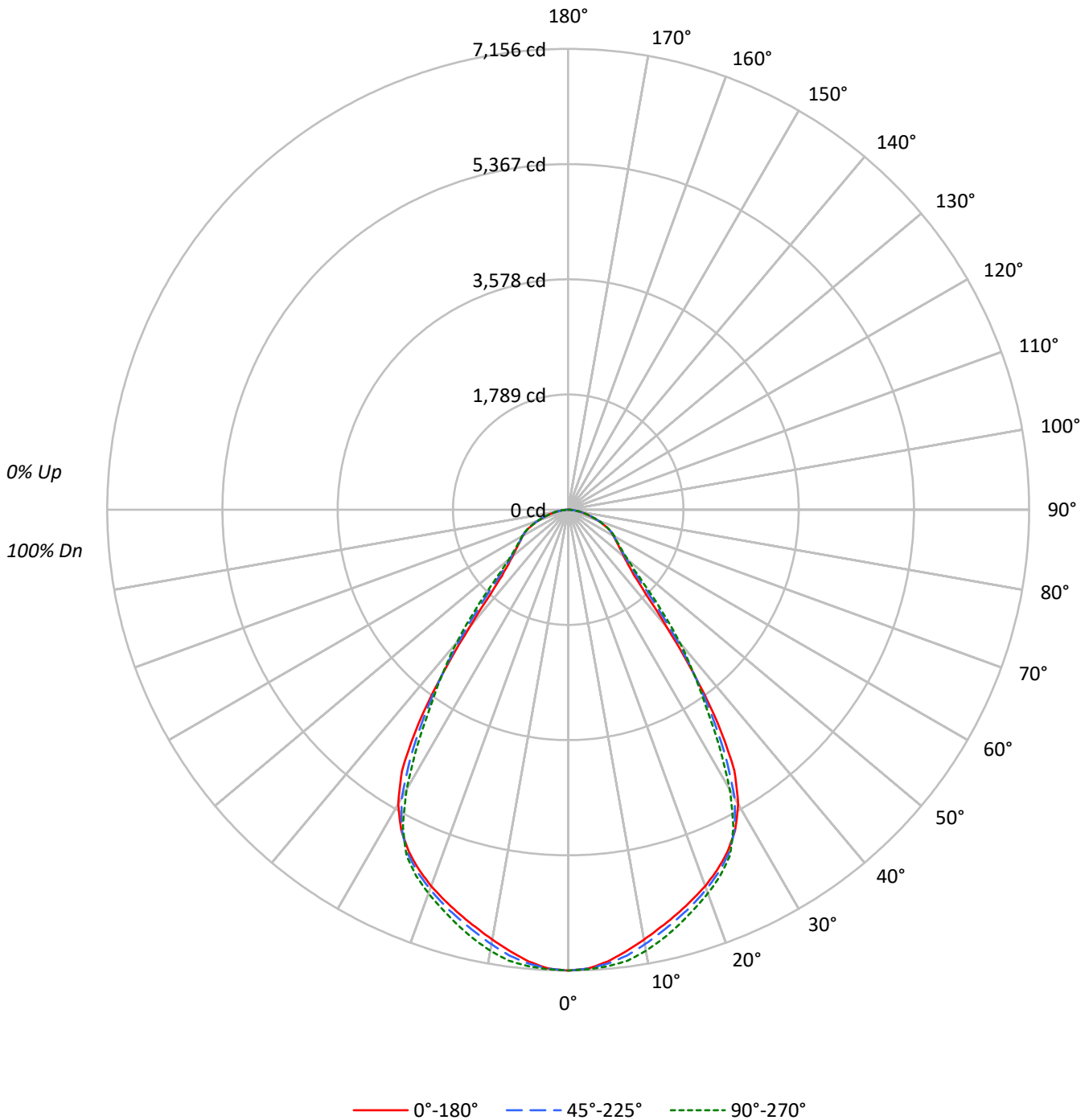
Input Watts (W): 118.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	111	107	104	101	109	105	102	99	101	99	96	97	95	93	94	92	91	89					89			
2	103	97	91	87	101	95	90	86	92	88	84	89	85	82	86	83	80	78					78			
3	96	88	81	76	94	86	80	75	84	78	74	81	77	73	79	75	72	70					70			
4	90	80	73	67	88	79	72	67	76	71	66	74	69	65	72	68	64	63					63			
5	84	73	66	60	82	72	65	60	70	64	59	68	63	59	67	62	58	57					57			
6	79	67	60	55	77	67	60	54	65	59	54	63	58	54	62	57	53	51					51			
7	74	62	55	50	72	62	55	50	60	54	49	59	53	49	58	53	49	47					47			
8	69	58	51	46	68	57	50	45	56	50	45	55	49	45	54	49	45	43					43			
9	66	54	47	42	64	53	47	42	52	46	42	51	46	42	50	45	41	40					40			
10	62	50	43	39	61	50	43	39	49	43	39	48	42	38	47	42	38	37					37			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	220662	220662	220662
5°	217963	219016	220260
10°	212264	214622	217769
15°	207628	209834	212844
20°	204069	205798	208066
25°	199272	200514	201838
30°	187875	183852	178439
35°	152519	145660	140078
40°	95378	103517	108525
45°	63552	69522	75439
50°	54180	55807	57735
55°	50654	51331	52073
60°	50208	50516	50979
65°	48952	49499	49864
70°	44403	44737	45080
75°	38769	39210	39365
80°	33012	33012	33918
85°	26677	26677	26677



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	668.6	6.1
10°-20°	1855.2	17.1
20°-30°	2682.0	24.7
30°-40°	2400.2	22.1
40°-50°	1298.9	11.9
50°-60°	865.7	8.0
60°-70°	663.0	6.1
70°-80°	351.4	3.2
80°-90°	88.9	0.8
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°	5205.8	47.9
0°-40°	7606.1	69.9
0°-60°	9770.7	89.9
0°-90°	10874.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10874.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7156	7156	7156	7156	7156	
5°	7042	7045	7076	7103	7116	664
15°	6504	6516	6573	6637	6667	1835
25°	5857	5871	5893	5921	5932	2680
35°	4052	4010	3869	3758	3721	2453
45°	1457	1500	1594	1694	1730	1199
55°	942	946	955	965	969	852
65°	671	673	678	683	683	658
75°	325	325	329	330	330	349
85°	75	75	75	77	75	89
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	7155.9	7155.9	7155.9	7155.9	7155.9
2.5°	7132.0	7129.5	7130.7	7138.3	7142.0
5°	7041.5	7045.3	7075.5	7103.1	7115.7
7.5°	6914.6	6931.0	6982.5	7036.5	7064.1
10°	6779.0	6795.3	6854.3	6931.0	6954.8
12.5°	6639.5	6659.6	6712.4	6790.3	6819.2
15°	6503.8	6516.4	6572.9	6637.0	6667.2
17.5°	6364.4	6377.0	6428.5	6478.7	6502.6
20°	6218.7	6232.5	6271.4	6314.1	6340.5
22.5°	6051.6	6065.4	6098.1	6135.7	6159.6
25°	5856.8	5870.7	5893.3	5920.9	5932.2
27.5°	5610.6	5619.4	5598.0	5575.4	5555.3
30°	5276.4	5248.8	5163.4	5054.1	5011.4
32.5°	4801.6	4712.4	4547.8	4414.6	4365.6
35°	4051.6	4010.1	3869.4	3757.6	3721.1
37.5°	3177.2	3204.8	3194.8	3187.2	3194.8
40°	2369.4	2433.4	2571.6	2665.9	2696.0
42.5°	1794.0	1855.5	2011.3	2142.0	2187.2
45°	1457.3	1500.0	1594.2	1693.5	1729.9
47.5°	1257.6	1281.4	1329.2	1381.9	1399.5
50°	1129.4	1139.5	1163.3	1193.5	1203.5
52.5°	1027.6	1032.7	1046.5	1062.8	1065.3
55°	942.2	946.0	954.8	964.8	968.6
57.5°	870.6	874.4	876.9	883.2	885.7
60°	814.1	814.1	819.1	824.1	826.6
62.5°	752.5	752.5	757.5	762.6	762.6
65°	670.9	673.4	678.4	683.4	683.4
67.5°	581.7	582.9	586.7	591.7	590.5
70°	492.5	492.5	496.2	498.7	500.0
72.5°	407.0	405.8	412.1	413.3	409.6
75°	325.4	325.4	329.1	330.4	330.4
77.5°	253.8	252.5	252.5	253.8	255.0
80°	185.9	187.2	185.9	188.4	191.0
82.5°	129.4	128.1	128.1	128.1	126.9
85°	75.4	75.4	75.4	76.6	75.4
87.5°	30.2	30.2	28.9	28.9	27.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)