

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: P247373

Luminaire Tested: **LSR8B120D010 EC8B120950 8LBS0WMH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247373
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-84)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B120D010 EC8B120950 8LBS0WMH
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
90 CRI 5000 CCT WITH WARM HAZE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12180.0 lumens
Efficiency: N/A
Efficacy: 103.0 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.2 / 1.23
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

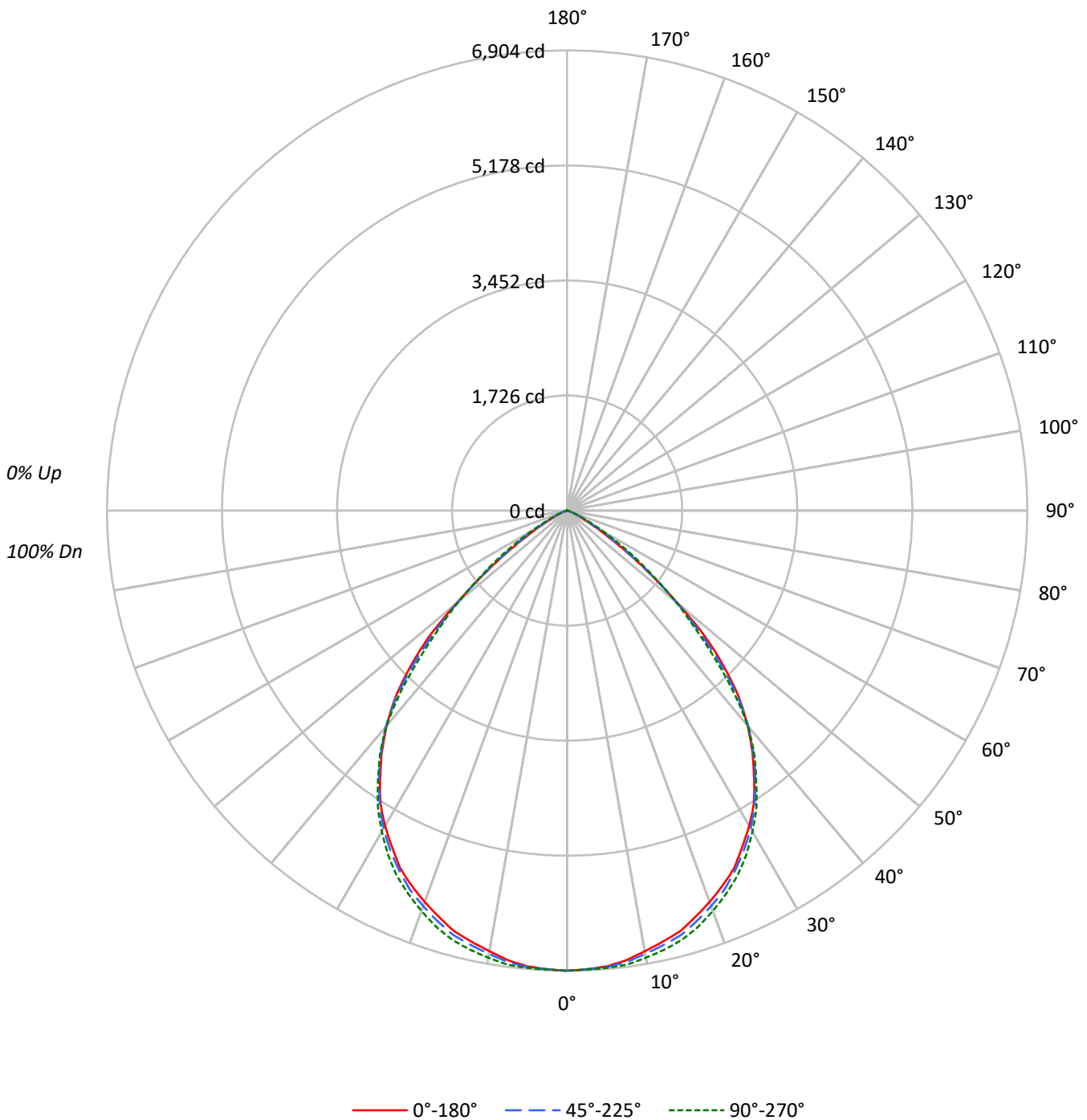
Input Watts (W): 118.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	101	102	100	98	99	97	95	95	94	92	91					91			
2	105	99	94	89	102	97	92	88	94	90	86	90	87	85	88	85	83	81					81			
3	98	90	83	78	95	88	82	78	85	80	76	83	79	75	80	77	74	72					72			
4	91	81	75	69	89	80	74	69	78	72	68	76	71	67	74	70	66	64					64			
5	85	74	67	62	83	73	66	61	71	65	61	70	64	60	68	63	60	58					58			
6	79	68	61	55	77	67	60	55	65	59	55	64	58	54	62	58	54	52					52			
7	74	62	55	50	72	62	55	50	60	54	49	59	53	49	58	53	49	47					47			
8	69	58	50	45	68	57	50	45	56	49	45	55	49	45	54	48	44	43					43			
9	65	53	46	41	64	53	46	41	52	45	41	51	45	41	50	45	41	39					39			
10	61	50	43	38	60	49	42	38	48	42	38	47	42	38	46	41	37	36					36			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	212888	212888	212888
5°	212441	212775	213153
10°	210176	211409	213279
15°	208688	210511	212765
20°	205063	207202	209746
25°	201525	202818	205638
30°	194548	196097	197934
35°	184099	185224	186196
40°	169521	170343	169904
45°	146152	142301	136614
50°	104336	102772	101534
55°	59890	63465	68723
60°	28400	33260	38453
65°	13382	16154	18533
70°	6248	6978	7961
75°	2919	4206	4861
80°	2415	2166	3374
85°	955	2406	1451



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	652.3	5.4
10°-20°	1856.2	15.2
20°-30°	2742.3	22.5
30°-40°	3064.3	25.2
40°-50°	2473.9	20.3
50°-60°	1100.4	9.0
60°-70°	247.9	2.0
70°-80°	38.3	0.3
80°-90°	4.5	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°	5250.8	43.1
0°-40°	8315.1	68.3
0°-60°	11889.3	97.6
0°-90°	12180.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12180.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6904	6904	6904	6904	6904	
5°	6863	6862	6874	6875	6886	650
15°	6537	6541	6594	6643	6665	1838
25°	5923	5923	5961	6010	6044	2715
35°	4890	4888	4920	4926	4946	3048
45°	3351	3326	3263	3148	3133	2534
55°	1114	1130	1180	1242	1278	1048
65°	183	206	221	240	254	213
75°	24	34	35	34	41	32
85°	3	4	7	15	4	3
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6903.8	6903.8	6903.8	6903.8	6903.8
2.5°	6886.1	6882.1	6888.9	6884.8	6891.6
5°	6863.1	6861.7	6873.9	6875.3	6886.1
7.5°	6803.3	6804.6	6830.5	6849.5	6871.2
10°	6712.3	6717.7	6751.7	6793.8	6811.4
12.5°	6625.3	6632.1	6675.6	6734.0	6747.6
15°	6537.0	6541.1	6594.1	6643.0	6664.7
17.5°	6393.0	6420.2	6460.9	6516.6	6545.2
20°	6249.0	6268.0	6314.2	6375.4	6391.7
22.5°	6091.4	6111.8	6158.0	6208.3	6225.9
25°	5923.0	5923.0	5961.0	6009.9	6043.9
27.5°	5688.0	5716.5	5743.7	5787.1	5821.1
30°	5463.8	5474.7	5507.3	5542.6	5558.9
32.5°	5215.2	5216.6	5231.5	5270.9	5285.9
35°	4890.5	4887.8	4920.4	4925.9	4946.2
37.5°	4565.9	4579.4	4591.7	4610.7	4612.0
40°	4211.3	4218.1	4231.7	4211.3	4220.8
42.5°	3825.5	3816.0	3790.2	3729.0	3703.2
45°	3351.4	3325.6	3263.1	3147.6	3132.7
47.5°	2828.4	2764.5	2688.4	2602.9	2586.6
50°	2174.9	2180.4	2142.3	2113.8	2116.5
52.5°	1585.3	1604.4	1613.9	1641.0	1656.0
55°	1114.0	1130.3	1180.5	1241.7	1278.3
57.5°	721.4	752.6	817.8	887.1	912.9
60°	460.5	480.9	539.3	589.6	623.5
62.5°	301.6	308.4	341.0	387.2	388.5
65°	183.4	206.5	221.4	240.5	254.0
67.5°	119.5	119.5	133.1	150.8	154.9
70°	69.3	70.6	77.4	84.2	88.3
72.5°	38.0	42.1	46.2	53.0	59.8
75°	24.5	34.0	35.3	34.0	40.8
77.5°	16.3	16.3	13.6	23.1	24.5
80°	13.6	9.5	12.2	17.7	19.0
82.5°	0.0	1.4	1.4	2.7	0.0
85°	2.7	4.1	6.8	14.9	4.1
87.5°	0.0	4.1	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)