

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: P247276

Luminaire Tested: **LSR8B100D010 EC8B100950 8LBW0WMH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247276
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-59)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B100D010 EC8B100950 8LBW0WMH
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 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: 9886.0 lumens
Efficiency: N/A
Efficacy: 93.0 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.14 / 1.06
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

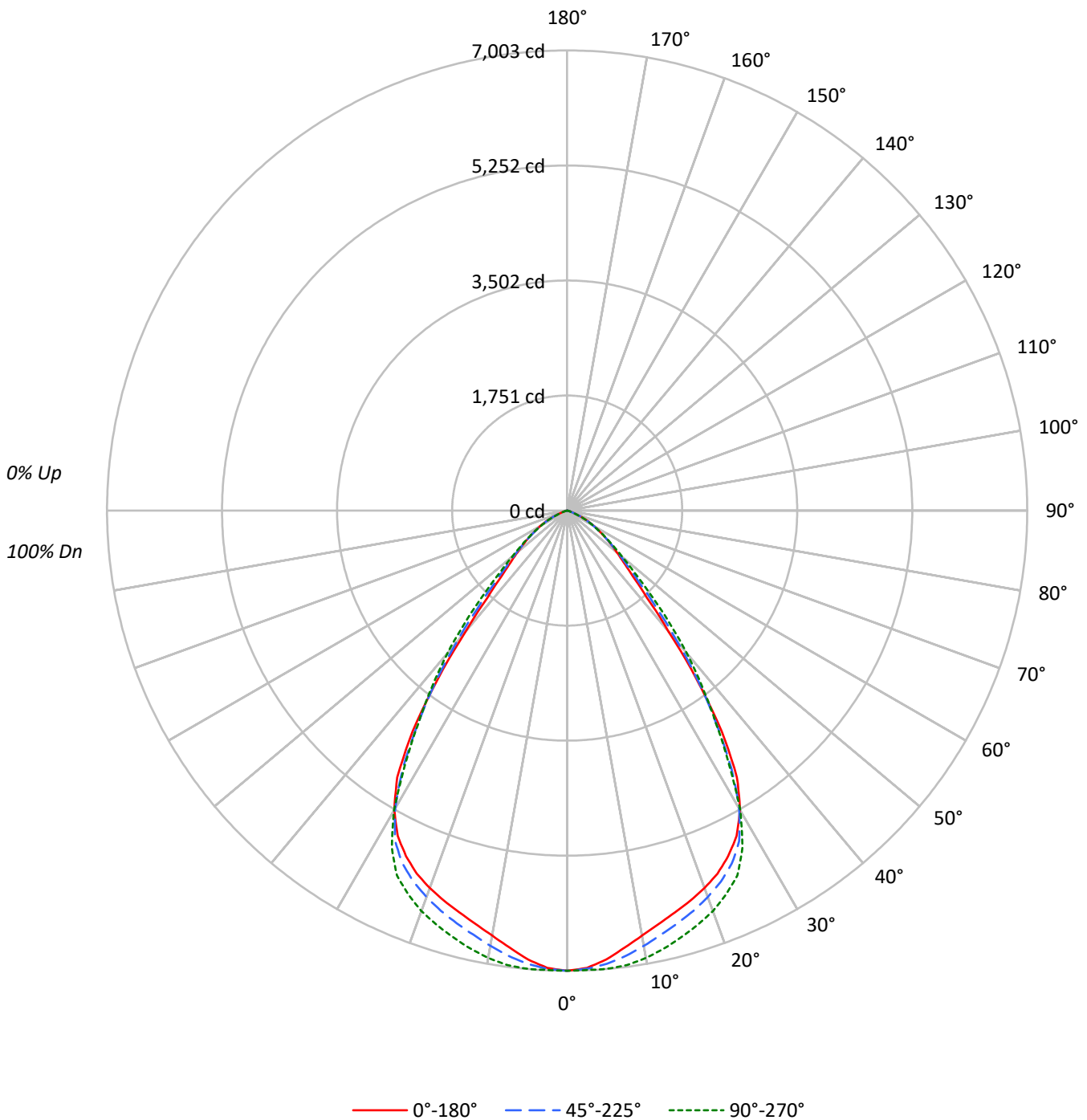
Input Watts (W): 106.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	104	110	107	104	102	103	101	99	99	98	96	96	94	93	91					91			
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	86	84	83					83			
3	99	91	85	81	97	90	84	80	87	83	79	85	81	78	82	79	76	75					75			
4	93	84	77	72	91	83	77	72	80	75	71	78	74	70	76	72	69	68					68			
5	87	77	70	65	85	76	70	65	74	69	64	72	68	64	71	67	63	61					61			
6	82	71	64	59	80	70	64	59	69	63	59	67	62	58	66	61	58	56					56			
7	77	66	59	54	75	65	59	54	64	58	54	63	57	53	61	57	53	51					51			
8	72	61	54	50	71	61	54	49	59	54	49	58	53	49	57	52	49	47					47			
9	68	57	50	46	67	57	50	46	56	50	45	55	49	45	54	49	45	44					44			
10	65	53	47	42	63	53	47	42	52	46	42	51	46	42	50	45	42	40					40			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	215947	215947	215947
5°	212246	214286	216660
10°	205620	210611	216466
15°	202143	207497	214575
20°	200551	205388	212820
25°	197377	201739	208510
30°	187273	186504	187697
35°	154368	148909	148548
40°	96714	105349	114080
45°	61297	68144	76713
50°	47196	49038	52487
55°	37364	37235	38590
60°	29116	28530	28382
65°	19584	18796	18278
70°	8971	8214	7781
75°	4277	3860	3574
80°	2131	1918	1918
85°	1274	1274	849



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	654.9	6.6
10°-20°	1839.0	18.6
20°-30°	2708.4	27.4
30°-40°	2463.4	24.9
40°-50°	1275.2	12.9
50°-60°	638.9	6.5
60°-70°	260.2	2.6
70°-80°	41.5	0.4
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°	5202.3	52.6
0°-40°	7665.8	77.5
0°-60°	9579.9	96.9
0°-90°	9886.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9886.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7003	7003	7003	7003	7003	
5°	6857	6875	6923	6976	6999	645
15°	6332	6375	6500	6650	6721	1789
25°	5801	5841	5929	6065	6128	2656
35°	4101	4074	3956	3922	3946	2473
45°	1406	1455	1563	1684	1759	1158
55°	695	693	693	706	718	631
65°	268	267	258	254	250	271
75°	36	35	32	30	30	45
85°	4	4	4	2	2	5
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	7003.0	7003.0	7003.0	7003.0	7003.0
2.5°	6965.9	6969.5	6979.1	6989.9	6998.2
5°	6856.8	6874.8	6922.7	6975.5	6999.4
7.5°	6708.2	6747.8	6835.3	6933.5	6976.7
10°	6566.8	6612.4	6726.2	6858.0	6913.2
12.5°	6442.2	6486.6	6610.0	6757.4	6825.7
15°	6332.0	6375.1	6499.7	6649.5	6721.4
17.5°	6227.7	6267.3	6385.9	6535.7	6608.8
20°	6111.5	6146.2	6258.9	6403.9	6485.4
22.5°	5979.7	6006.0	6111.5	6249.3	6321.2
25°	5801.1	5840.7	5929.3	6064.7	6128.3
27.5°	5583.0	5608.2	5669.3	5752.0	5778.3
30°	5259.5	5258.3	5237.9	5237.9	5271.4
32.5°	4810.1	4752.6	4655.5	4596.8	4592.0
35°	4100.7	4074.3	3955.7	3922.1	3946.1
37.5°	3235.5	3253.5	3283.4	3331.4	3374.5
40°	2402.6	2448.2	2617.1	2768.1	2834.0
42.5°	1792.7	1851.4	2024.0	2189.3	2269.6
45°	1405.6	1454.8	1562.6	1683.7	1759.1
47.5°	1162.4	1187.5	1245.1	1326.5	1364.9
50°	983.8	995.8	1022.2	1064.1	1094.1
52.5°	835.2	830.4	844.8	872.4	883.2
55°	695.0	692.6	692.6	705.8	717.8
57.5°	576.4	572.8	565.6	571.6	575.2
60°	472.1	468.5	462.6	461.4	460.2
62.5°	379.9	373.9	361.9	359.5	359.5
65°	268.4	267.2	257.6	254.0	250.5
67.5°	166.6	161.8	153.4	146.2	145.0
70°	99.5	98.3	91.1	86.3	86.3
72.5°	59.9	57.5	53.9	51.5	50.3
75°	35.9	34.8	32.4	30.0	30.0
77.5°	21.6	20.4	19.2	18.0	18.0
80°	12.0	12.0	10.8	10.8	10.8
82.5°	7.2	7.2	6.0	6.0	6.0
85°	3.6	3.6	3.6	2.4	2.4
87.5°	1.2	1.2	1.2	1.2	1.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)