

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: P247671

Luminaire Tested: **LSR8B90D010 EC8B90827 8LBW0MW**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247671
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: LSR8B90D010 EC8B90827 8LBW0MW
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 2700 CCT WITH MATTE WHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9146.0 lumens
Efficiency: N/A
Efficacy: 106.2 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

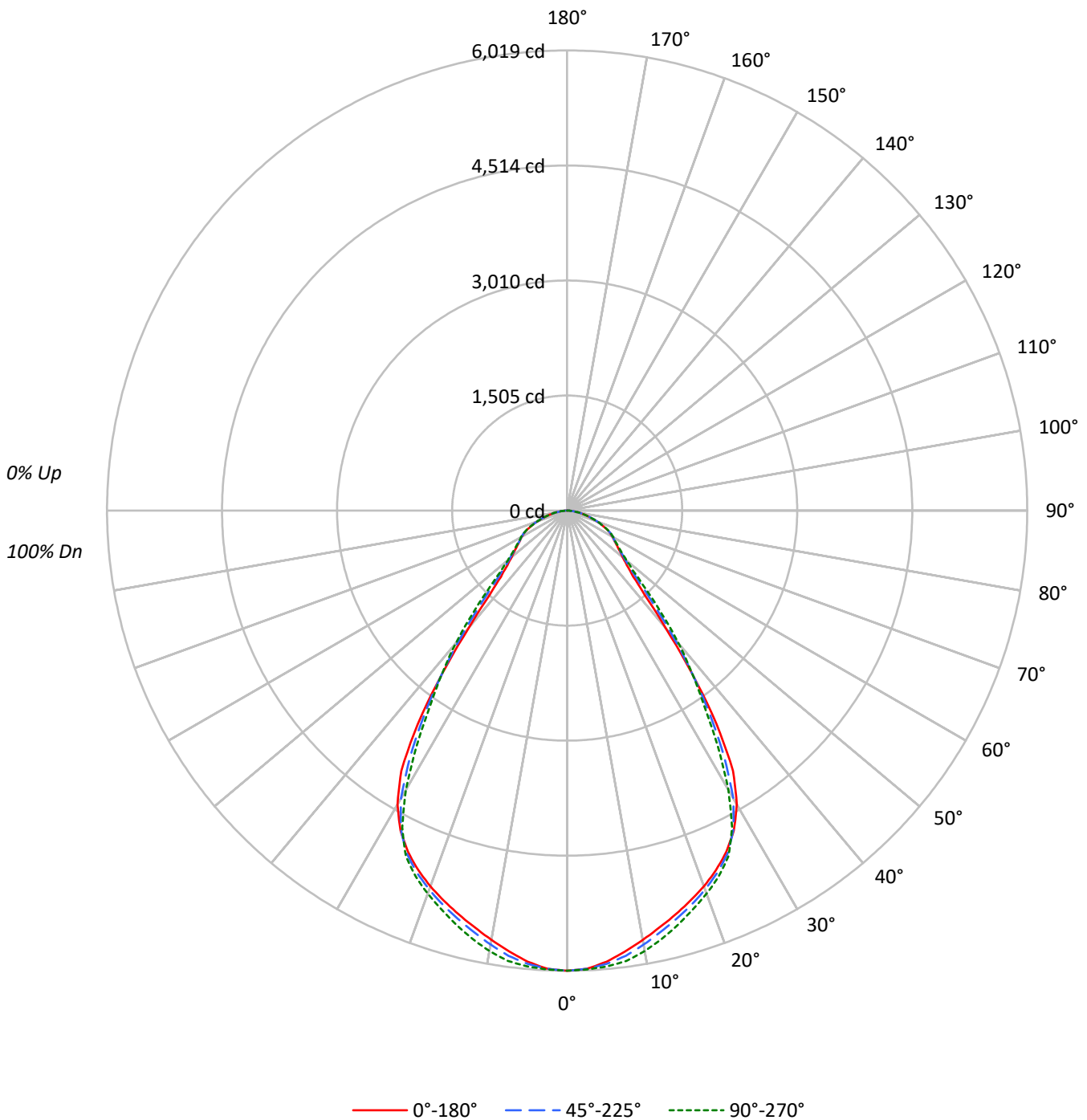
Input Watts (W): 86.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	185595	185595	185595
5°	183329	184211	185257
10°	178532	180517	183163
15°	174634	176489	179021
20°	171637	173094	175001
25°	167606	168651	169763
30°	158023	154636	150082
35°	128280	122513	117819
40°	80222	87069	91280
45°	53452	58475	63451
50°	45569	46941	48563
55°	42606	43176	43799
60°	42227	42486	42881
65°	41174	41634	41940
70°	37344	37633	37912
75°	32609	32979	33110
80°	27773	27773	28519
85°	22431	22431	22431



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	562.4	6.1
10°-20°	1560.4	17.1
20°-30°	2255.8	24.7
30°-40°	2018.8	22.1
40°-50°	1092.5	11.9
50°-60°	728.2	8.0
60°-70°	557.7	6.1
70°-80°	295.5	3.2
80°-90°	74.8	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°	4378.6	47.9
0°-40°	6397.4	69.9
0°-60°	8218.1	89.9
0°-90°	9146.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9146.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6019	6019	6019	6019	6019	
5°	5923	5926	5951	5974	5985	558
15°	5470	5481	5528	5582	5608	1543
25°	4926	4938	4957	4980	4990	2254
35°	3408	3373	3254	3160	3130	2063
45°	1226	1262	1341	1424	1455	1009
55°	792	796	803	812	815	717
65°	564	566	571	575	575	553
75°	274	274	277	278	278	294
85°	63	63	63	64	63	75
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6018.7	6018.7	6018.7	6018.7	6018.7
2.5°	5998.6	5996.5	5997.6	6003.9	6007.1
5°	5922.6	5925.7	5951.1	5974.3	5984.9
7.5°	5815.8	5829.6	5872.9	5918.3	5941.6
10°	5701.7	5715.5	5765.1	5829.6	5849.6
12.5°	5584.4	5601.3	5645.7	5711.2	5735.5
15°	5470.3	5480.9	5528.4	5582.3	5607.7
17.5°	5353.0	5363.6	5406.9	5449.2	5469.2
20°	5230.4	5242.1	5274.8	5310.8	5332.9
22.5°	5089.9	5101.5	5129.0	5160.7	5180.8
25°	4926.1	4937.8	4956.8	4980.0	4989.5
27.5°	4719.0	4726.4	4708.5	4689.4	4672.5
30°	4438.0	4414.7	4342.9	4250.9	4215.0
32.5°	4038.5	3963.5	3825.1	3713.1	3671.9
35°	3407.7	3372.8	3254.5	3160.5	3129.8
37.5°	2672.3	2695.5	2687.1	2680.7	2687.1
40°	1992.9	2046.7	2163.0	2242.2	2267.6
42.5°	1508.9	1560.7	1691.7	1801.6	1839.6
45°	1225.7	1261.6	1340.9	1424.4	1455.0
47.5°	1057.7	1077.8	1117.9	1162.3	1177.1
50°	949.9	958.4	978.5	1003.8	1012.3
52.5°	864.3	868.6	880.2	893.9	896.0
55°	792.5	795.7	803.1	811.5	814.7
57.5°	732.3	735.4	737.5	742.8	744.9
60°	684.7	684.7	688.9	693.2	695.3
62.5°	632.9	632.9	637.2	641.4	641.4
65°	564.3	566.4	570.6	574.8	574.8
67.5°	489.2	490.3	493.5	497.7	496.6
70°	414.2	414.2	417.4	419.5	420.5
72.5°	342.4	341.3	346.6	347.6	344.5
75°	273.7	273.7	276.8	277.9	277.9
77.5°	213.4	212.4	212.4	213.4	214.5
80°	156.4	157.4	156.4	158.5	160.6
82.5°	108.8	107.8	107.8	107.8	106.7
85°	63.4	63.4	63.4	64.5	63.4
87.5°	25.4	25.4	24.3	24.3	23.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)