

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: P247702

Luminaire Tested: **LSR8B80D010 EC8B80940 8LBW0MW**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247702
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: LSR8B80D010 EC8B80940 8LBW0MW
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
90 CRI 4000 CCT WITH MATTE WHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7710.0 lumens
Efficiency: N/A
Efficacy: 103.6 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

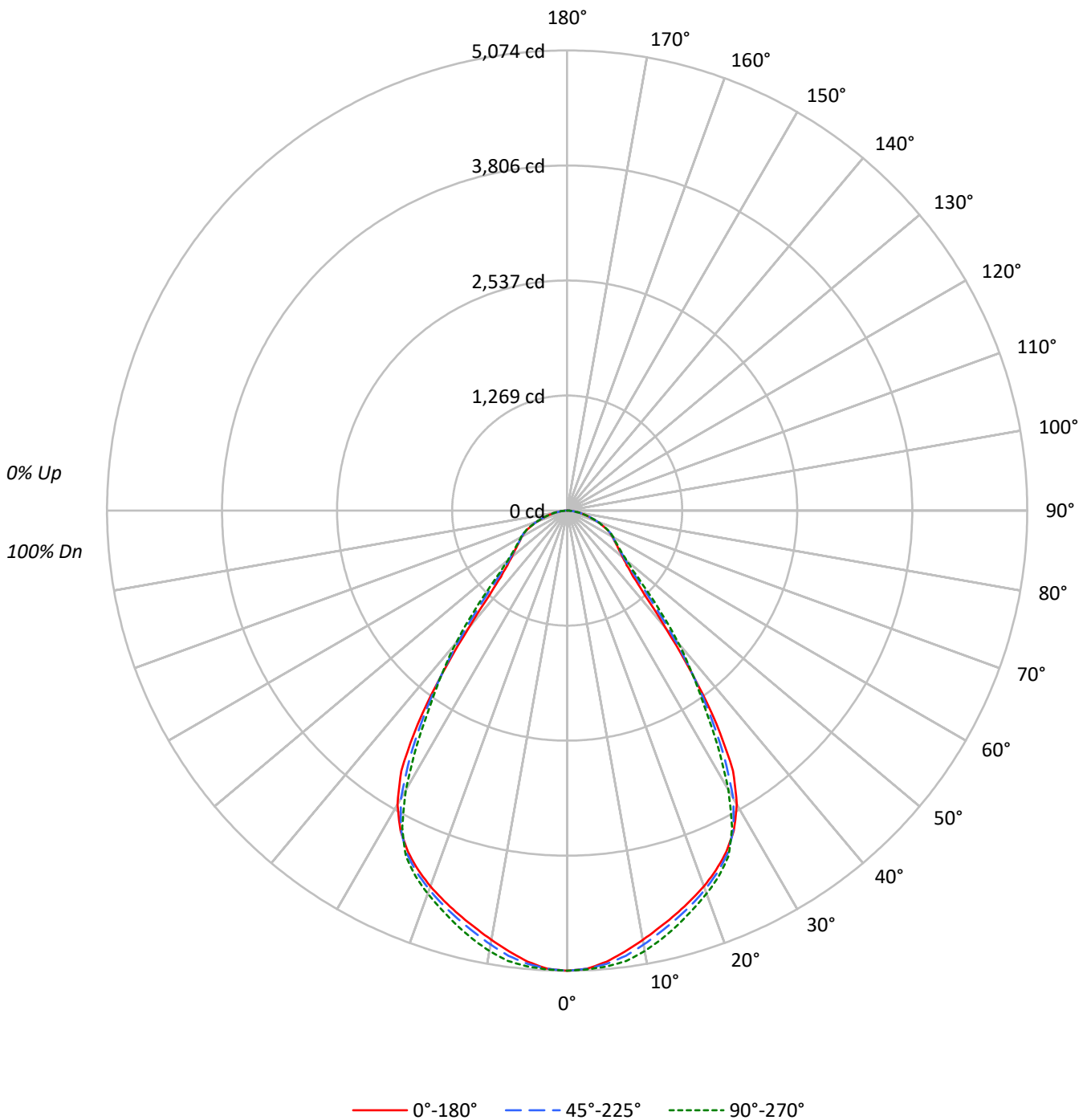
Input Watts (W): 74.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	156454	156454	156454
5°	154545	155287	156170
10°	150501	152173	154406
15°	147215	148779	150912
20°	144689	145917	147525
25°	141292	142170	143109
30°	133212	130356	126518
35°	108140	103277	99320
40°	67627	73399	76949
45°	45061	49296	53491
50°	38417	39568	40935
55°	35918	36397	36923
60°	35597	35819	36146
65°	34709	35096	35359
70°	31484	31718	31961
75°	27486	27808	27915
80°	23405	23405	24044
85°	18893	18893	18893



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	474.1	6.1
10°-20°	1315.4	17.1
20°-30°	1901.6	24.7
30°-40°	1701.8	22.1
40°-50°	921.0	11.9
50°-60°	613.8	8.0
60°-70°	470.1	6.1
70°-80°	249.1	3.2
80°-90°	63.0	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°	3691.1	47.9
0°-40°	5392.9	69.9
0°-60°	6927.8	89.9
0°-90°	7710.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7710.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5074	5074	5074	5074	5074	
5°	4993	4995	5017	5036	5045	470
15°	4611	4620	4660	4706	4727	1301
25°	4153	4162	4178	4198	4206	1900
35°	2873	2843	2744	2664	2638	1739
45°	1033	1064	1130	1201	1227	850
55°	668	671	677	684	687	604
65°	476	477	481	485	485	466
75°	231	231	233	234	234	248
85°	53	53	53	54	53	63
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5073.7	5073.7	5073.7	5073.7	5073.7
2.5°	5056.8	5055.0	5055.9	5061.3	5063.9
5°	4992.7	4995.3	5016.7	5036.3	5045.2
7.5°	4902.7	4914.3	4950.8	4989.1	5008.7
10°	4806.5	4818.1	4859.9	4914.3	4931.2
12.5°	4707.6	4721.9	4759.3	4814.5	4835.0
15°	4611.4	4620.3	4660.4	4705.8	4727.2
17.5°	4512.5	4521.5	4558.0	4593.6	4610.5
20°	4409.2	4419.0	4446.6	4476.9	4495.6
22.5°	4290.8	4300.5	4323.7	4350.4	4367.4
25°	4152.7	4162.5	4178.5	4198.1	4206.1
27.5°	3978.1	3984.3	3969.2	3953.2	3938.9
30°	3741.2	3721.6	3661.0	3583.5	3553.2
32.5°	3404.5	3341.2	3224.5	3130.1	3095.4
35°	2872.7	2843.3	2743.5	2664.2	2638.4
37.5°	2252.7	2272.3	2265.2	2259.8	2265.2
40°	1680.0	1725.4	1823.4	1890.2	1911.6
42.5°	1272.0	1315.6	1426.1	1518.7	1550.8
45°	1033.3	1063.6	1130.4	1200.7	1226.6
47.5°	891.6	908.6	942.4	979.8	992.3
50°	800.8	807.9	824.8	846.2	853.3
52.5°	728.6	732.2	742.0	753.6	755.4
55°	668.1	670.7	677.0	684.1	686.8
57.5°	617.3	620.0	621.7	626.2	628.0
60°	577.2	577.2	580.8	584.3	586.1
62.5°	533.6	533.6	537.1	540.7	540.7
65°	475.7	477.4	481.0	484.6	484.6
67.5°	412.4	413.3	416.0	419.5	418.7
70°	349.2	349.2	351.8	353.6	354.5
72.5°	288.6	287.7	292.2	293.1	290.4
75°	230.7	230.7	233.4	234.3	234.3
77.5°	179.9	179.0	179.0	179.9	180.8
80°	131.8	132.7	131.8	133.6	135.4
82.5°	91.7	90.9	90.9	90.9	90.0
85°	53.4	53.4	53.4	54.3	53.4
87.5°	21.4	21.4	20.5	20.5	19.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)