

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: P247682

Luminaire Tested: **LSR8B80D010 EC8B80840 8LBW0MW**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247682
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 EC8B80840 8LBW0MW
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 4000 CCT WITH MATTE WHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8599.0 lumens
Efficiency: N/A
Efficacy: 115.6 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

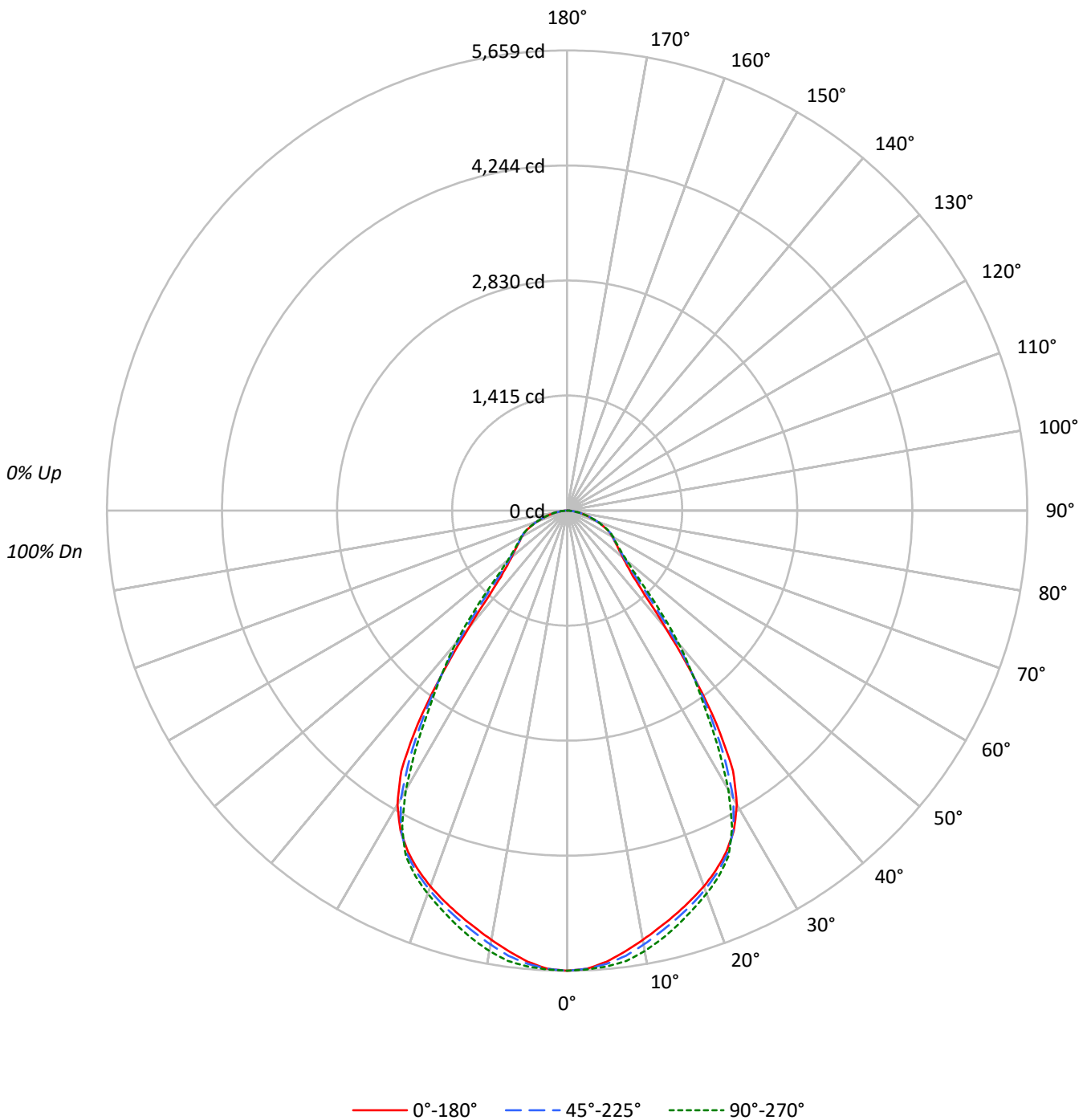
Input Watts (W): 74.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	174493	174493	174493
5°	172362	173194	174179
10°	167854	169721	172210
15°	164189	165935	168313
20°	161373	162744	164536
25°	157583	158563	159610
30°	148569	145386	141106
35°	120608	115187	110772
40°	75424	81860	85821
45°	50255	54978	59657
50°	42844	44130	45656
55°	40058	40590	41181
60°	39705	39945	40315
65°	38708	39146	39430
70°	35108	35379	35649
75°	30655	31013	31132
80°	26104	26104	26814
85°	21087	21087	21087



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	528.8	6.1
10°-20°	1467.1	17.1
20°-30°	2120.9	24.7
30°-40°	1898.1	22.1
40°-50°	1027.2	11.9
50°-60°	684.6	8.0
60°-70°	524.3	6.1
70°-80°	277.9	3.2
80°-90°	70.3	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°	4116.7	47.9
0°-40°	6014.8	69.9
0°-60°	7726.6	89.9
0°-90°	8599.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8599.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5659	5659	5659	5659	5659	
5°	5568	5571	5595	5617	5627	525
15°	5143	5153	5198	5248	5272	1451
25°	4632	4642	4660	4682	4691	2119
35°	3204	3171	3060	2971	2943	1939
45°	1152	1186	1261	1339	1368	948
55°	745	748	755	763	766	674
65°	530	532	536	540	540	520
75°	257	257	260	261	261	276
85°	60	60	60	61	60	71
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5658.7	5658.7	5658.7	5658.7	5658.7
2.5°	5639.9	5637.9	5638.9	5644.8	5647.8
5°	5568.3	5571.3	5595.2	5617.0	5627.0
7.5°	5468.0	5480.9	5521.6	5564.4	5586.2
10°	5360.7	5373.6	5420.3	5480.9	5499.8
12.5°	5250.4	5266.3	5308.1	5369.6	5392.5
15°	5143.1	5153.1	5197.8	5248.4	5272.3
17.5°	5032.9	5042.8	5083.5	5123.3	5142.1
20°	4917.6	4928.6	4959.4	4993.1	5014.0
22.5°	4785.5	4796.4	4822.3	4852.1	4870.9
25°	4631.5	4642.4	4660.3	4682.2	4691.1
27.5°	4436.8	4443.7	4426.9	4409.0	4393.1
30°	4172.5	4150.7	4083.1	3996.7	3962.9
32.5°	3797.0	3726.5	3596.3	3491.0	3452.3
35°	3203.9	3171.1	3059.9	2971.4	2942.6
37.5°	2512.5	2534.3	2526.4	2520.4	2526.4
40°	1873.7	1924.3	2033.6	2108.1	2132.0
42.5°	1418.7	1467.3	1590.5	1693.8	1729.6
45°	1152.4	1186.2	1260.7	1339.2	1368.0
47.5°	994.5	1013.3	1051.1	1092.8	1106.7
50°	893.1	901.1	919.9	943.8	951.7
52.5°	812.6	816.6	827.6	840.5	842.5
55°	745.1	748.1	755.0	763.0	766.0
57.5°	688.5	691.4	693.4	698.4	700.4
60°	643.8	643.8	647.7	651.7	653.7
62.5°	595.1	595.1	599.1	603.0	603.0
65°	530.5	532.5	536.5	540.4	540.4
67.5°	460.0	461.0	463.9	467.9	466.9
70°	389.4	389.4	392.4	394.4	395.4
72.5°	321.9	320.9	325.9	326.8	323.9
75°	257.3	257.3	260.3	261.3	261.3
77.5°	200.7	199.7	199.7	200.7	201.7
80°	147.0	148.0	147.0	149.0	151.0
82.5°	102.3	101.3	101.3	101.3	100.3
85°	59.6	59.6	59.6	60.6	59.6
87.5°	23.8	23.8	22.8	22.8	21.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)