

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: P247274

Luminaire Tested: **LSR8B80D010 EC8B80950 8LBW0WMH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247274
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: LSR8B80D010 EC8B80950 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: 7608.0 lumens
Efficiency: N/A
Efficacy: 102.3 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

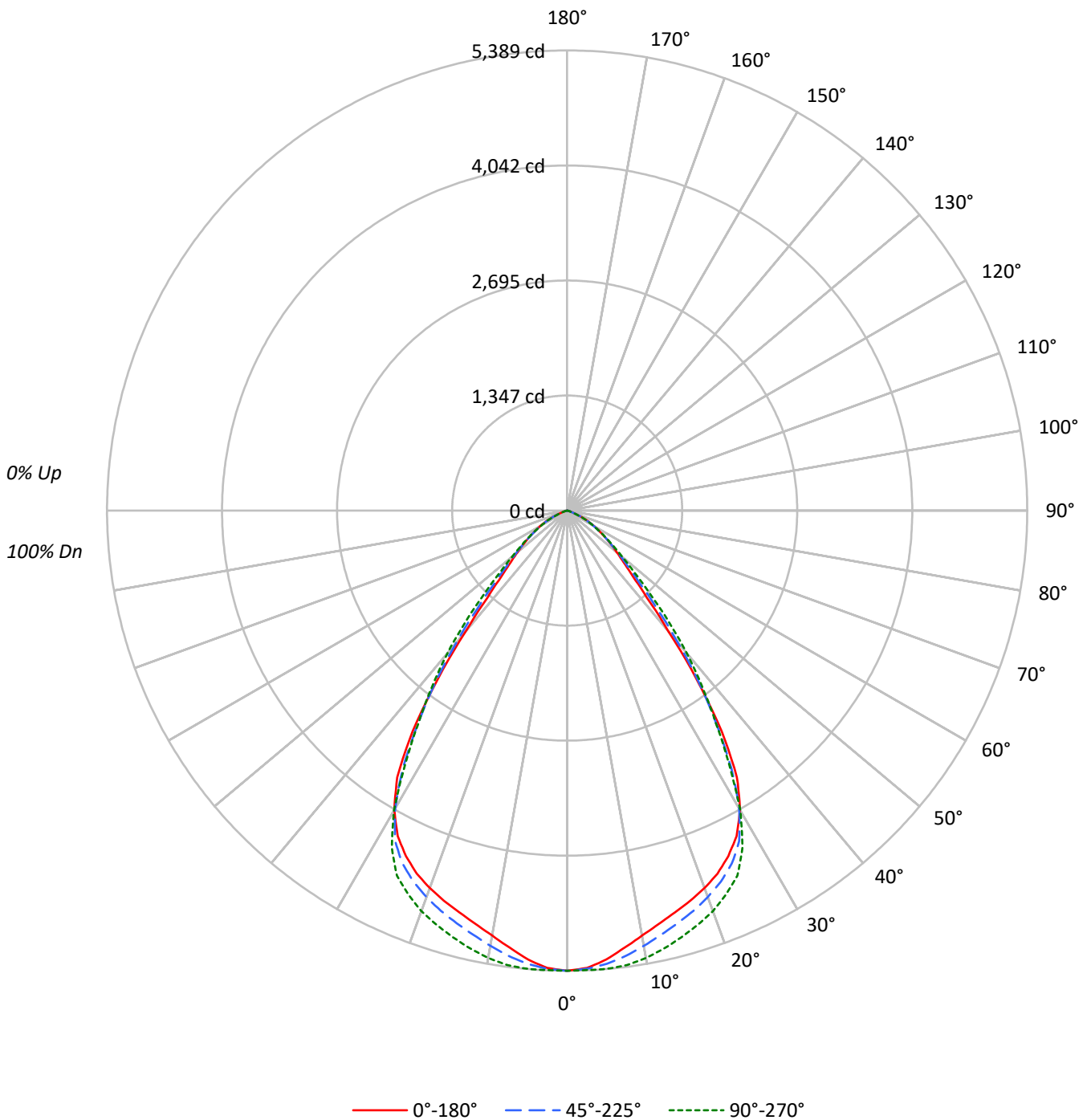
Input Watts (W): 74.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	112	109	106	104	110	107	104	102	103	101	99	99	98	96	96	94	93	91
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	86	84	83
3	99	91	85	81	97	90	84	80	87	83	79	85	81	78	82	79	76	75
4	93	84	77	72	91	83	77	72	80	75	71	78	74	70	76	72	69	68
5	87	77	70	65	85	76	70	65	74	69	64	72	68	64	71	67	63	61
6	82	71	64	59	80	70	64	59	69	63	59	67	62	58	66	61	58	56
7	77	66	59	54	75	65	59	54	64	58	54	63	57	53	61	57	53	51
8	72	61	54	50	71	61	54	49	59	54	49	58	53	49	57	52	49	47
9	68	57	50	46	67	57	50	46	56	50	45	55	49	45	54	49	45	44
10	65	53	47	42	63	53	47	42	52	46	42	51	46	42	50	45	42	40

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	166186	166186	166186
5°	163339	164911	166737
10°	158242	162080	166586
15°	155563	159684	165131
20°	154337	158062	163781
25°	151897	155255	160461
30°	144118	143527	144449
35°	118798	114596	114318
40°	74430	81075	87794
45°	47172	52444	59038
50°	36320	37735	40393
55°	28757	28655	29698
60°	22406	21955	21838
65°	15075	14469	14060
70°	6897	6320	5987
75°	3300	2967	2752
80°	1634	1474	1474
85°	991	991	637



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	504.0	6.6
10°-20°	1415.3	18.6
20°-30°	2084.3	27.4
30°-40°	1895.8	24.9
40°-50°	981.4	12.9
50°-60°	491.7	6.5
60°-70°	200.2	2.6
70°-80°	31.9	0.4
80°-90°	3.4	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°	4003.6	52.6
0°-40°	5899.4	77.5
0°-60°	7372.4	96.9
0°-90°	7608.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7608.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5389	5389	5389	5389	5389	
5°	5277	5291	5328	5368	5387	496
15°	4873	4906	5002	5117	5173	1377
25°	4464	4495	4563	4667	4716	2044
35°	3156	3136	3044	3018	3037	1903
45°	1082	1120	1203	1296	1354	891
55°	535	533	533	543	552	486
65°	207	206	198	196	193	208
75°	28	27	25	23	23	35
85°	3	3	3	2	2	4
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5389.3	5389.3	5389.3	5389.3	5389.3
2.5°	5360.8	5363.5	5370.9	5379.2	5385.7
5°	5276.8	5290.7	5327.6	5368.1	5386.6
7.5°	5162.5	5192.9	5260.2	5335.9	5369.1
10°	5053.7	5088.7	5176.3	5277.8	5320.2
12.5°	4957.8	4991.9	5086.9	5200.3	5252.9
15°	4872.9	4906.1	5002.0	5117.3	5172.6
17.5°	4792.7	4823.1	4914.4	5029.7	5085.9
20°	4703.2	4730.0	4816.7	4928.2	4991.0
22.5°	4601.8	4622.1	4703.2	4809.3	4864.6
25°	4464.4	4494.8	4563.1	4667.3	4716.1
27.5°	4296.5	4315.9	4362.9	4426.6	4446.9
30°	4047.5	4046.6	4030.9	4030.9	4056.8
32.5°	3701.7	3657.5	3582.8	3537.6	3533.9
35°	3155.8	3135.5	3044.2	3018.4	3036.8
37.5°	2489.9	2503.8	2526.8	2563.7	2596.9
40°	1849.0	1884.1	2014.1	2130.3	2181.0
42.5°	1379.6	1424.8	1557.6	1684.9	1746.6
45°	1081.7	1119.6	1202.6	1295.7	1353.8
47.5°	894.5	913.9	958.2	1020.9	1050.4
50°	757.1	766.3	786.6	818.9	842.0
52.5°	642.8	639.1	650.2	671.4	679.7
55°	534.9	533.0	533.0	543.2	552.4
57.5°	443.6	440.8	435.3	439.9	442.7
60°	363.3	360.6	356.0	355.0	354.1
62.5°	292.3	287.7	278.5	276.7	276.7
65°	206.6	205.7	198.3	195.5	192.7
67.5°	128.2	124.5	118.0	112.5	111.6
70°	76.5	75.6	70.1	66.4	66.4
72.5°	46.1	44.3	41.5	39.7	38.7
75°	27.7	26.7	24.9	23.1	23.1
77.5°	16.6	15.7	14.8	13.8	13.8
80°	9.2	9.2	8.3	8.3	8.3
82.5°	5.5	5.5	4.6	4.6	4.6
85°	2.8	2.8	2.8	1.8	1.8
87.5°	0.9	0.9	0.9	0.9	0.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)