

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: P247418

Luminaire Tested: **LSR8B80D010 EC8B80950 8LBW0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247418
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13927)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B80D010 EC8B80950 8LBW0WH
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
90 CRI 5000 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8024.0 lumens
Efficiency: N/A
Efficacy: 107.8 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.24 / 1.12
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

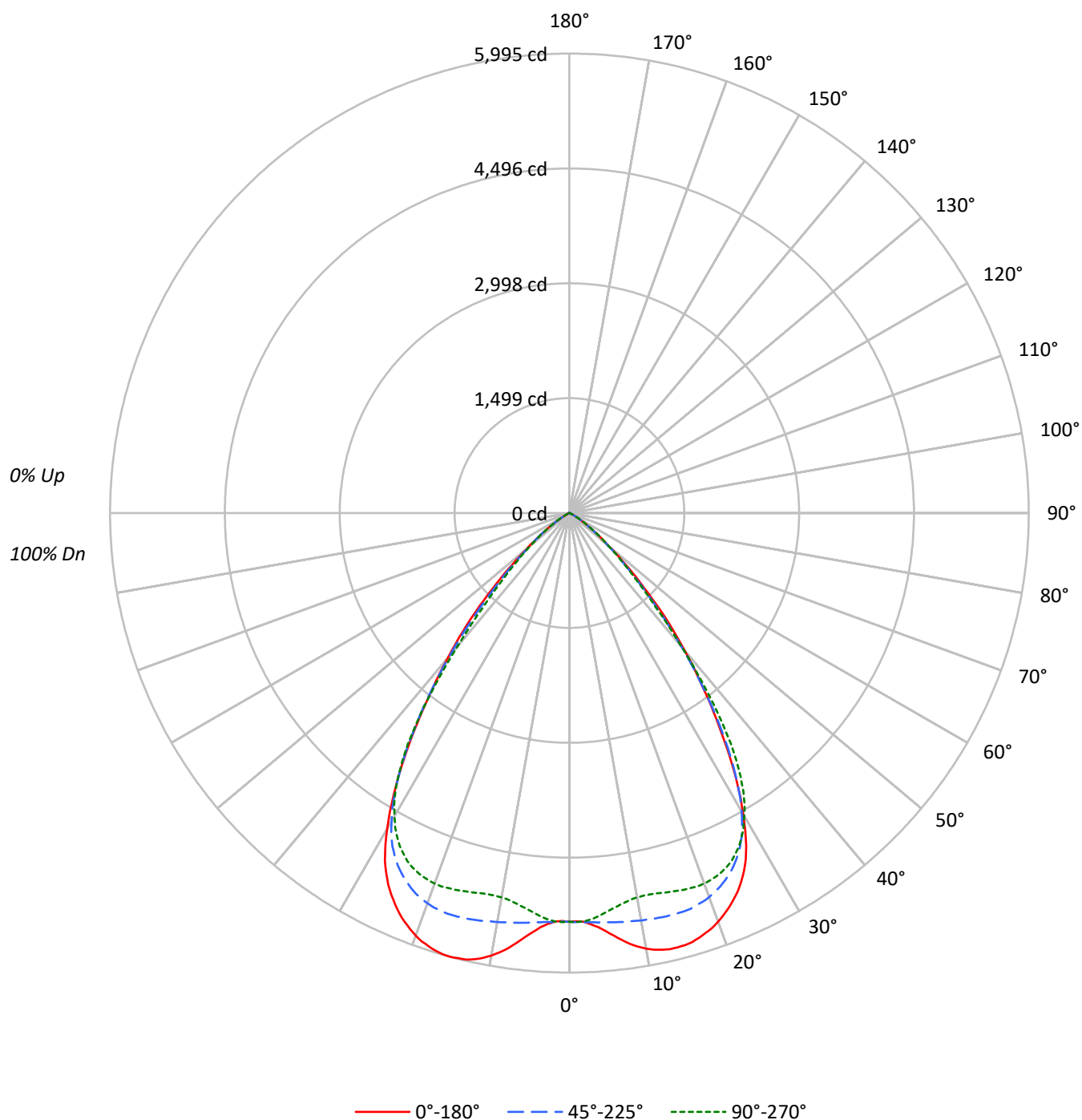
Input Watts (W): 74.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100
1	113	110	107	105	110	108	105	103	104	102	100	100	98	97	96	95	94	92	92	92
2	106	101	96	93	104	99	95	92	96	92	90	93	90	88	90	88	86	84	84	84
3	100	93	87	83	98	91	86	82	89	84	81	86	83	79	84	81	78	76	76	76
4	94	85	79	74	92	84	79	74	82	77	73	80	76	72	78	74	71	70	70	70
5	88	79	72	67	87	78	72	67	76	71	67	74	70	66	73	69	65	64	64	64
6	83	73	66	61	81	72	66	61	71	65	61	69	64	60	68	63	60	58	58	58
7	78	68	61	56	77	67	61	56	66	60	56	64	59	55	63	59	55	53	53	53
8	74	63	56	52	72	62	56	51	61	55	51	60	55	51	59	54	51	49	49	49
9	70	59	52	48	68	58	52	48	57	51	47	56	51	47	55	50	47	45	45	45
10	66	55	48	44	65	54	48	44	54	48	44	53	47	44	52	47	44	42	42	42

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	164469	164469	164469
5°	169514	162150	169796
10°	180699	159416	183535
15°	186258	163327	191388
20°	186250	168779	192570
25°	180546	170369	187024
30°	161594	162562	169338
35°	128705	138342	135873
40°	94033	91481	99411
45°	60072	53556	65313
50°	32497	31844	34891
55°	16688	17295	16688
60°	7265	7265	5310
65°	1488	1985	1656
70°	1019	1434	1632
75°	0	810	0
80°	391	391	1598
85°	0	778	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	514.1	6.4
10°-20°	1546.7	19.3
20°-30°	2354.2	29.3
30°-40°	2190.9	27.3
40°-50°	1066.3	13.3
50°-60°	303.8	3.8
60°-70°	39.7	0.5
70°-80°	6.3	0.1
80°-90°	1.9	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°	4415.1	55.0
0°-40°	6606.0	82.3
0°-60°	7976.1	99.4
0°-90°	8024.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8024.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	5334	5334	5334	5334	5334	
5°	5476	5356	5238	5361	5485	533
15°	5834	5411	5116	5463	5995	1641
25°	5306	5075	5007	5186	5497	2409
35°	3419	3467	3675	3636	3609	2126
45°	1378	1276	1228	1375	1498	1089
55°	310	310	322	315	310	304
65°	20	25	27	25	23	39
75°	0	2	7	2	0	4
85°	0	2	2	5	0	1
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	5333.6	5333.6	5333.6	5333.6	5333.6	5333.6	5333.6	5333.6	5333.6
1°	5326.7	5333.6	5338.1	5335.9	5338.1	5335.9	5331.3	5322.3	5322.3
2°	5335.9	5344.9	5342.6	5338.1	5331.3	5331.3	5344.9	5326.7	5331.3
3°	5372.1	5372.1	5344.9	5320.0	5310.9	5320.0	5342.6	5356.2	5367.6
4°	5417.4	5408.3	5354.0	5297.4	5279.2	5301.8	5351.7	5394.7	5417.4
5°	5476.3	5449.1	5356.2	5270.1	5238.4	5272.4	5360.8	5442.3	5485.4
6°	5544.3	5503.5	5369.8	5240.7	5199.9	5247.5	5374.4	5499.0	5564.7
7°	5612.3	5546.6	5376.6	5218.0	5165.9	5231.6	5385.7	5562.4	5648.5
8°	5675.7	5587.3	5383.4	5197.7	5134.2	5202.1	5394.7	5619.0	5732.3
9°	5727.9	5625.8	5387.9	5181.8	5107.0	5184.1	5406.1	5668.9	5802.6
10°	5770.9	5655.3	5397.1	5172.7	5091.2	5175.0	5417.4	5712.0	5861.5
11°	5804.9	5675.7	5399.3	5168.2	5084.4	5168.2	5426.4	5755.0	5911.4
12°	5825.2	5693.8	5406.1	5170.4	5086.6	5175.0	5440.1	5773.2	5952.1
13°	5838.8	5700.6	5410.6	5177.2	5091.2	5179.5	5449.1	5789.0	5979.3
14°	5838.8	5696.1	5410.6	5184.1	5104.8	5188.5	5455.9	5800.3	5986.1
15°	5834.4	5693.8	5410.6	5195.3	5116.1	5197.7	5462.7	5807.1	5995.1
16°	5820.7	5680.2	5408.3	5202.1	5127.4	5206.7	5465.0	5802.6	5988.4
17°	5793.5	5673.5	5399.3	5209.0	5138.7	5215.8	5465.0	5791.3	5972.5
18°	5757.2	5625.8	5376.6	5202.1	5141.0	5213.5	5451.4	5761.8	5943.1
19°	5725.5	5598.7	5360.8	5197.7	5150.0	5220.3	5442.3	5741.4	5911.4
20°	5675.7	5553.4	5333.6	5184.1	5143.3	5206.7	5419.7	5705.2	5868.3
21°	5614.5	5501.2	5295.0	5161.4	5131.9	5188.5	5387.9	5655.3	5809.4
22°	5553.4	5442.3	5254.3	5138.7	5113.8	5172.7	5354.0	5603.2	5748.2
23°	5480.8	5376.6	5202.1	5100.2	5086.6	5136.5	5306.4	5546.6	5675.7
24°	5399.3	5299.6	5145.5	5057.1	5052.7	5098.0	5252.0	5471.8	5589.6
25°	5306.4	5218.0	5075.3	5002.8	5007.3	5045.8	5186.3	5387.9	5496.8
26°	5195.3	5113.8	4993.7	4937.1	4943.9	4982.4	5111.5	5290.6	5394.7
27°	5070.7	4996.0	4898.6	4857.7	4875.9	4909.9	5020.9	5184.1	5267.9
28°	4914.4	4855.5	4785.3	4767.2	4789.8	4828.4	4921.2	5054.9	5129.7
29°	4733.1	4701.4	4647.1	4656.1	4687.8	4719.5	4796.6	4894.0	4953.0
30°	4538.3	4524.7	4493.0	4529.3	4565.5	4592.7	4644.8	4710.5	4755.8
31°	4338.9	4323.1	4327.6	4386.5	4440.9	4459.0	4488.4	4520.1	4554.2
32°	4114.6	4110.1	4128.2	4214.3	4284.6	4293.6	4295.8	4304.9	4323.1
33°	3885.8	3879.0	3915.3	4021.8	4101.0	4107.8	4089.6	4080.6	4094.2
34°	3647.9	3647.9	3695.4	3806.5	3899.4	3906.1	3869.9	3865.4	3851.7
35°	3419.0	3412.2	3466.6	3570.8	3675.0	3677.3	3636.5	3611.6	3609.4
37.5°	2852.6	2841.3	2859.4	2913.7	2990.8	3031.6	3027.0	3018.0	3011.2
40°	2336.0	2308.8	2272.6	2249.9	2272.6	2356.4	2428.9	2462.9	2469.6
42.5°	1848.9	1810.4	1733.3	1669.8	1679.0	1756.0	1867.0	1944.0	1982.5
45°	1377.5	1339.0	1275.6	1228.1	1228.1	1282.4	1375.3	1454.6	1497.7
47.5°	983.3	958.4	922.2	901.7	915.3	938.0	990.1	1049.1	1067.2
50°	677.4	670.6	650.3	650.3	663.8	682.0	691.1	720.5	727.3
52.5°	473.6	462.2	464.4	466.8	478.1	480.4	493.9	487.1	498.5
55°	310.4	310.4	310.4	317.2	321.7	321.7	314.9	310.4	310.4
57.5°	197.2	192.6	194.8	199.4	199.4	192.6	181.3	179.0	167.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
60°	117.8	117.8	120.1	120.1	117.8	111.0	99.7	90.6	86.1
62.5°	61.2	63.4	63.4	74.8	63.4	56.6	52.1	40.8	38.5
65°	20.4	24.9	24.9	24.9	27.2	24.9	24.9	22.7	22.7
67.5°	13.6	15.9	15.9	18.1	18.1	18.1	18.1	22.7	15.9
70°	11.3	11.3	13.6	15.9	15.9	18.1	13.6	11.3	18.1
72.5°	6.8	9.0	6.8	11.3	9.0	9.0	9.0	9.0	9.0
75°	0.0	4.6	2.2	0.0	6.8	4.6	2.2	4.6	0.0
77.5°	2.2	2.2	2.2	2.2	4.6	4.6	4.6	4.6	2.2
80°	2.2	2.2	4.6	2.2	2.2	4.6	0.0	0.0	9.0
82.5°	2.2	2.2	2.2	2.2	2.2	2.2	0.0	2.2	2.2
85°	0.0	2.2	2.2	2.2	2.2	2.2	4.6	4.6	0.0
87.5°	0.0	2.2	0.0	2.2	0.0	0.0	0.0	4.6	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)