

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: P250144

Luminaire Tested: **LSR8B120D010 EC8B120840 8LBM0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P250144
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13942)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B120D010 EC8B120840 8LBM0WH
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 4000 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12287.0 lumens
Efficiency: N/A
Efficacy: 103.9 lumens/watt
Spacing Criteria (0/90/45): 0.84 / 0.8 / 0.85
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

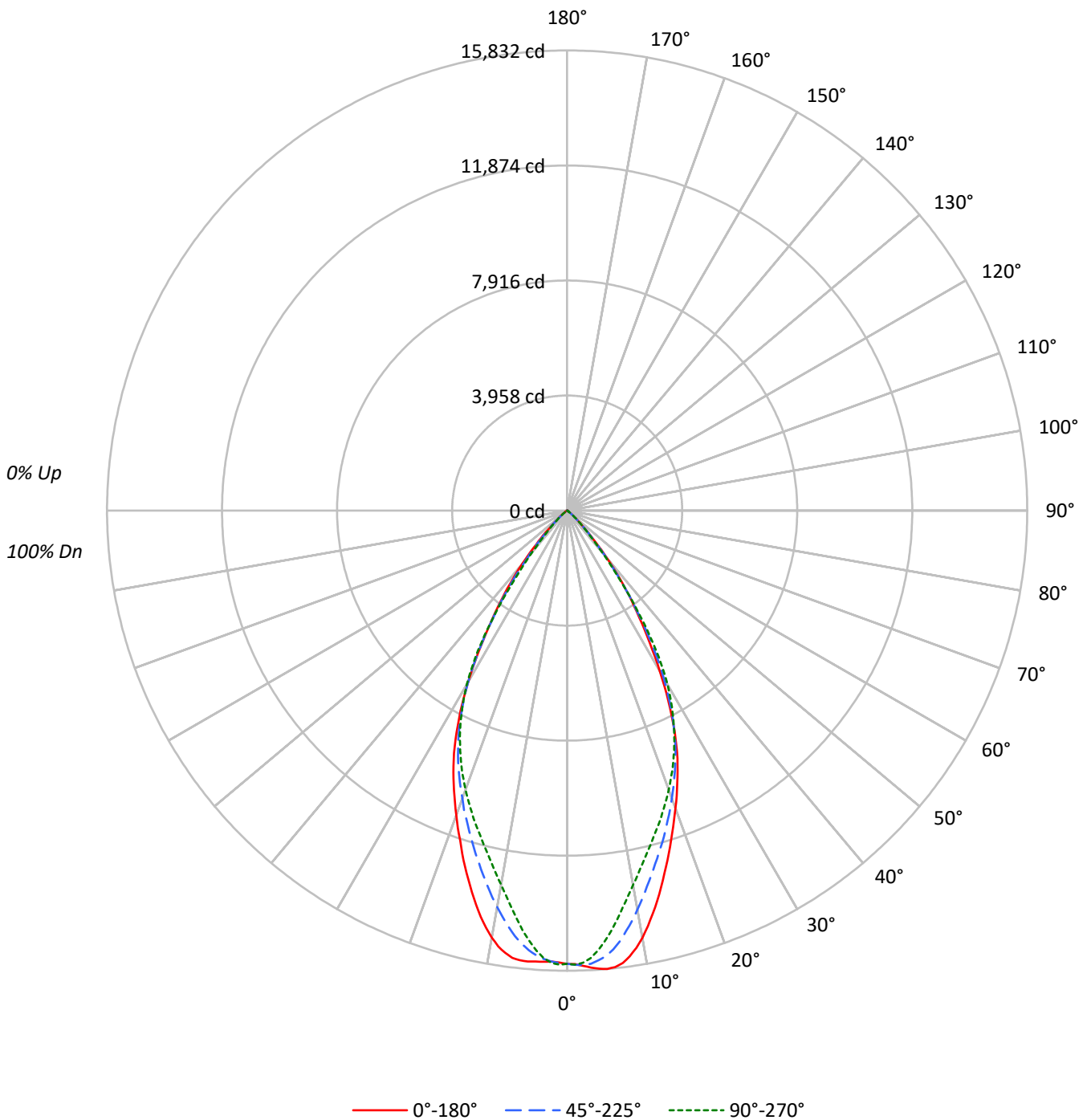
Input Watts (W): 118.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	114	111	108	106	111	109	107	105	105	103	101	101	100	98	98	97	96	94					94			
2	108	103	99	96	106	102	98	95	98	95	93	95	93	91	93	91	89	87					87			
3	103	97	92	88	101	95	91	87	93	89	86	90	87	84	88	85	83	81					81			
4	98	90	85	81	96	89	84	80	87	83	79	85	81	78	83	80	77	76					76			
5	93	85	79	75	91	84	78	74	82	77	74	80	76	73	79	75	72	71					71			
6	88	80	74	69	87	79	73	69	77	72	69	76	72	68	75	71	68	66					66			
7	84	75	69	65	83	74	69	65	73	68	64	72	67	64	71	67	64	62					62			
8	80	71	65	61	79	70	64	61	69	64	60	68	63	60	67	63	60	58					58			
9	76	67	61	57	75	66	61	57	65	60	57	64	60	56	64	59	56	55					55			
10	73	63	57	54	72	63	57	54	62	57	53	61	56	53	60	56	53	52					52			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	480840	480840	480840
5°	490072	460380	482089
10°	467244	409552	467125
15°	412597	369387	419614
20°	357556	335284	366016
25°	302103	296942	313195
30°	227057	245822	242581
35°	151996	160699	164840
40°	85157	73101	97672
45°	34224	30090	40674
50°	11820	11461	14003
55°	3263	3876	3672
60°	1869	2337	2103
65°	1656	1379	1102
70°	0	1028	685
75°	0	0	0
80°	0	0	675
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1415.6	11.5
10°-20°	3423.7	27.9
20°-30°	4012.8	32.7
30°-40°	2640.2	21.5
40°-50°	689.0	5.6
50°-60°	84.7	0.7
60°-70°	17.6	0.1
70°-80°	3.3	0.0
80°-90°	0.1	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°	8852.1	72.0
0°-40°	11492.3	93.5
0°-60°	12266.1	99.8
0°-90°	12287.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12287.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	15593	15593	15593	15593	15593	
5°	15832	15381	14873	15180	15574	###
15°	12924	12192	11571	12192	13144	3603
25°	8879	8792	8727	8875	9205	4003
35°	4038	4129	4269	4311	4379	2528
45°	785	739	690	800	933	703
55°	61	64	72	72	68	80
65°	23	19	19	15	15	16
75°	0	4	0	0	0	2
85°	0	0	0	0	0	0
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°	15593.3	15593.3	15593.3	15593.3	15593.3	15593.3	15593.3	15593.3	15593.3
1°	15604.6	15627.4	15635.0	15657.8	15623.6	15600.9	15570.6	15547.8	15551.6
2°	15672.9	15684.3	15642.6	15627.4	15566.8	15547.8	15525.0	15521.2	15525.0
3°	15745.0	15722.2	15612.2	15509.9	15418.9	15407.5	15449.2	15509.9	15544.0
4°	15801.8	15741.2	15509.9	15320.3	15176.2	15164.9	15331.7	15487.1	15551.6
5°	15832.2	15722.2	15381.0	15062.5	14873.0	14945.0	15180.0	15456.8	15574.3
6°	15790.4	15627.4	15183.8	14759.2	14543.1	14637.9	14982.9	15384.8	15559.2
7°	15684.3	15475.8	14929.8	14429.4	14164.0	14311.8	14751.6	15263.4	15502.3
8°	15487.1	15236.9	14607.6	14046.4	13784.9	13951.6	14467.3	15089.0	15365.8
9°	15229.3	14952.6	14289.1	13697.7	13417.1	13614.3	14171.6	14857.8	15176.2
10°	14922.2	14626.5	13936.5	13333.7	13079.7	13265.5	13853.1	14588.6	14918.4
11°	14562.0	14277.7	13583.9	12992.5	12749.9	12931.9	13534.7	14266.4	14622.7
12°	14171.6	13910.0	13223.8	12662.7	12435.2	12609.6	13193.5	13932.7	14285.3
13°	13781.0	13519.5	12875.0	12344.2	12135.7	12302.5	12859.8	13568.8	13921.3
14°	13360.3	13121.4	12526.2	12040.9	11851.4	12010.5	12518.6	13201.0	13534.7
15°	12924.3	12734.7	12192.5	11748.9	11570.8	11722.4	12192.5	12821.9	13144.1
16°	12514.8	12340.4	11870.3	11460.8	11313.0	11434.3	11862.8	12442.8	12749.9
17°	12097.7	11938.6	11548.0	11176.5	11043.8	11161.4	11525.3	12059.9	12336.6
18°	11680.8	11548.0	11195.5	10877.0	10759.5	10865.6	11191.7	11673.2	11923.3
19°	11294.0	11172.7	10873.2	10604.0	10497.9	10592.6	10899.8	11301.6	11551.8
20°	10896.0	10797.4	10535.8	10315.9	10217.3	10304.5	10543.4	10933.9	11153.8
21°	10513.0	10425.8	10198.4	10012.6	9933.0	10005.1	10224.9	10577.5	10770.8
22°	10115.0	10065.7	9861.0	9705.5	9652.5	9697.9	9898.8	10202.2	10384.2
23°	9724.4	9679.0	9523.5	9394.7	9349.1	9394.7	9572.9	9845.8	10008.9
24°	9330.2	9280.9	9167.2	9083.7	9045.9	9083.7	9235.4	9466.6	9622.1
25°	8879.1	8871.5	8791.9	8746.3	8727.4	8769.1	8875.3	9076.2	9205.1
26°	8446.8	8424.1	8401.3	8393.7	8397.5	8420.3	8507.5	8659.1	8761.5
27°	7916.1	7950.2	7984.3	8029.8	8044.9	8064.0	8105.6	8215.5	8291.4
28°	7408.0	7472.5	7555.9	7646.9	7688.6	7688.6	7692.3	7753.0	7817.5
29°	6903.8	6972.0	7104.8	7241.2	7298.1	7290.5	7260.1	7286.7	7324.6
30°	6376.8	6464.0	6642.2	6820.4	6903.8	6873.5	6816.6	6790.1	6812.8
31°	5861.2	5948.4	6145.6	6338.9	6448.8	6414.8	6316.2	6297.2	6308.6
32°	5368.4	5455.6	5637.5	5842.2	5967.4	5921.9	5819.5	5789.2	5793.0
33°	4890.7	4958.9	5125.7	5315.3	5417.7	5406.2	5322.8	5285.0	5288.7
34°	4439.5	4496.4	4621.5	4765.6	4864.1	4860.3	4799.7	4803.5	4814.9
35°	4037.7	4068.0	4128.6	4208.3	4268.9	4303.0	4310.6	4340.9	4378.9
37.5°	3052.0	3063.3	2991.3	2911.6	2896.5	2995.1	3165.7	3313.6	3370.4
40°	2115.5	2089.0	1998.0	1857.7	1816.0	1926.0	2142.0	2350.6	2426.4
42.5°	1315.6	1304.2	1247.3	1141.2	1103.3	1167.7	1330.7	1490.0	1565.8
45°	784.8	769.6	739.2	697.6	690.0	716.5	799.9	890.9	932.7
47.5°	451.1	447.4	428.4	413.3	409.5	428.4	466.3	519.4	530.8
50°	246.4	242.7	238.9	238.9	238.9	250.2	269.2	284.3	291.9
52.5°	121.3	125.1	121.3	125.1	128.9	136.5	132.7	147.9	147.9
55°	60.7	56.9	64.5	72.1	72.1	72.1	72.1	72.1	68.3
57.5°	45.5	49.3	41.7	45.5	41.7	41.7	37.9	41.7	45.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
60°	30.3	26.5	30.3	34.1	37.9	34.1	26.5	30.3	34.1
62.5°	15.1	15.1	15.1	22.7	34.1	26.5	22.7	18.9	18.9
65°	22.7	15.1	18.9	22.7	18.9	18.9	15.1	18.9	15.1
67.5°	11.4	18.9	11.4	7.6	11.4	15.1	11.4	7.6	7.6
70°	0.0	3.8	3.8	11.4	11.4	11.4	11.4	7.6	7.6
72.5°	3.8	3.8	3.8	7.6	3.8	7.6	3.8	3.8	7.6
75°	0.0	0.0	3.8	3.8	0.0	3.8	0.0	0.0	0.0
77.5°	3.8	0.0	3.8	3.8	0.0	0.0	0.0	3.8	0.0
80°	0.0	0.0	3.8	0.0	0.0	0.0	0.0	0.0	3.8
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)