

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: P247808

Luminaire Tested: **LSR8B150D010 EC8B150835 8LBN0LI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247808
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-89)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B150D010 EC8B150835 8LBN0LI
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 3500 CCT WITH SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15006.0 lumens
Efficiency: N/A
Efficacy: 94.7 lumens/watt
Spacing Criteria (0/90/45): 0.55 / 0.55 / 0.63
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

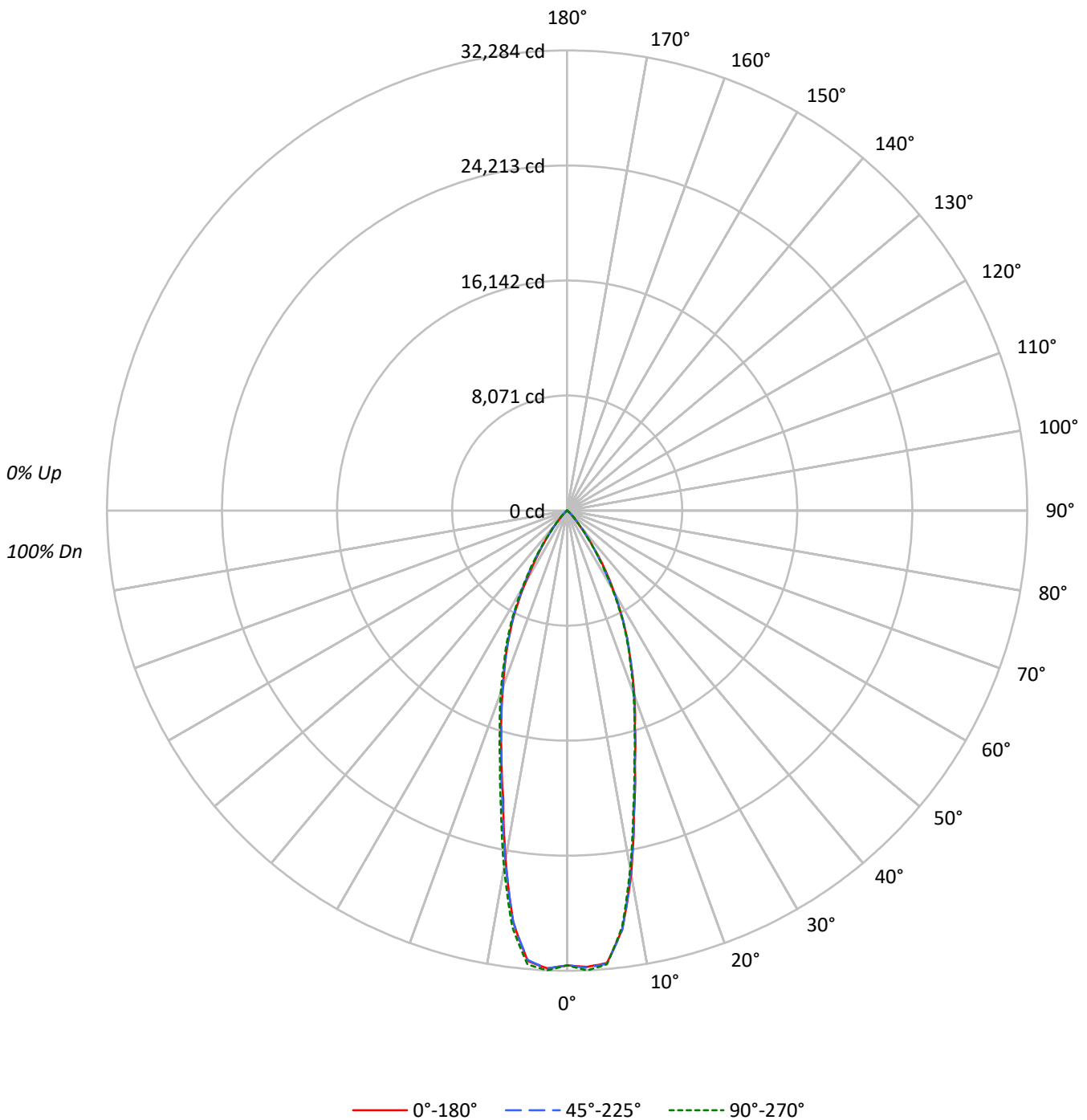
Input Watts (W): 158.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				
1	114	112	109	107	112	109	107	106	105	104	102	102	101	99	98	97	97	95				
2	109	105	101	98	107	103	100	97	100	97	95	97	95	93	94	93	91	90				
3	105	99	95	91	103	98	94	90	95	92	89	93	90	88	90	88	86	85				
4	100	94	89	85	98	92	88	84	90	87	83	88	85	83	87	84	82	80				
5	96	89	83	80	94	88	83	79	86	82	79	84	81	78	83	80	77	76				
6	92	84	79	75	91	83	78	75	82	78	74	81	77	74	79	76	73	72				
7	88	80	75	71	87	79	74	71	78	74	71	77	73	70	76	73	70	69				
8	85	76	71	67	84	76	71	67	75	70	67	74	70	67	73	69	67	65				
9	81	73	68	64	80	72	67	64	72	67	64	71	67	64	70	66	63	62				
10	78	70	65	61	77	69	64	61	69	64	61	68	64	61	67	63	61	60				

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	983845	983845	983845
5°	986458	989058	982031
10°	809995	797188	777336
15°	586915	580945	567569
20°	452776	446607	431876
25°	339996	335947	324753
30°	232010	225529	207904
35°	131149	125540	114924
40°	52773	54866	52813
45°	21761	22328	20671
50°	6620	6524	4749
55°	1882	1398	968
60°	1480	1357	370
65°	657	1386	292
70°	361	721	0
75°	2025	1191	834
80°	1598	710	1953
85°	2123	3892	5307



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2820.1	18.8
10°-20°	5110.4	34.1
20°-30°	4452.9	29.7
30°-40°	2121.0	14.1
40°-50°	440.7	2.9
50°-60°	35.0	0.2
60°-70°	13.6	0.1
70°-80°	6.0	0.0
80°-90°	6.3	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°	12383.5	82.5
0°-40°	14504.4	96.7
0°-60°	14980.2	99.8
0°-90°	15006.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15006.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	31905	31905	31905	31905	31905	
5°	31868	31919	31952	31652	31725	###
15°	18385	18387	18198	17821	17779	5192
25°	9993	9983	9874	9577	9545	4543
35°	3484	3366	3335	3166	3053	2230
45°	499	552	512	459	474	441
55°	35	27	26	24	18	38
65°	9	15	19	6	4	13
75°	17	11	10	12	7	8
85°	6	6	11	7	15	5
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°	31905.4	31905.4	31905.4	31905.4	31905.4	31905.4	31905.4	31905.4	31905.4
2.5°	32044.4	32050.4	32100.4	32243.4	32284.4	32252.4	32144.4	32105.4	32144.4
5°	31868.4	31847.4	31919.4	32025.4	31952.4	31821.4	31652.4	31613.4	31725.4
7.5°	29612.5	29598.5	29666.4	29658.4	29465.5	29218.5	29077.5	28966.5	29062.5
10°	25868.5	25743.5	25698.5	25777.5	25459.5	25118.5	24915.5	24990.5	24825.5
12.5°	21653.6	21636.6	21716.6	21619.6	21435.6	21226.6	20977.6	20843.6	20723.6
15°	18384.7	18429.7	18386.7	18346.7	18197.7	18040.7	17820.7	17727.7	17778.7
17.5°	15818.7	15805.7	15760.7	15827.7	15712.7	15487.7	15294.7	15327.7	15383.7
20°	13797.7	13742.7	13636.7	13664.7	13609.7	13434.8	13258.8	13140.8	13160.8
22.5°	11714.8	11762.8	11749.8	11666.8	11580.8	11452.8	11366.8	11212.8	11284.8
25°	9992.8	10000.8	9982.8	9970.8	9873.8	9750.8	9576.8	9539.8	9544.8
27.5°	8230.8	8268.8	8253.8	8202.8	8104.8	8001.9	7893.9	7808.9	7800.9
30°	6515.9	6569.9	6462.9	6389.9	6333.9	6315.9	6134.9	6007.9	5838.9
32.5°	5041.9	4961.9	4620.9	4621.9	4730.9	4773.9	4600.9	4312.9	4265.9
35°	3483.9	3469.9	3365.9	3333.9	3334.9	3292.9	3165.9	3053.9	3052.9
37.5°	2184.0	2236.0	2294.0	2281.0	2153.0	2023.0	1962.0	2028.0	2047.0
40°	1311.0	1379.0	1449.0	1457.0	1363.0	1213.0	1194.0	1255.0	1312.0
42.5°	821.0	850.0	897.0	906.0	839.0	784.0	749.0	793.0	793.0
45°	499.0	526.0	552.0	554.0	512.0	466.0	459.0	476.0	474.0
47.5°	294.0	295.0	305.0	298.0	284.0	262.0	253.0	262.0	264.0
50°	138.0	135.0	140.0	153.0	136.0	115.0	117.0	110.0	99.0
52.5°	33.0	30.0	36.0	39.0	38.0	40.0	38.0	38.0	29.0
55°	35.0	22.0	27.0	28.0	26.0	28.0	24.0	16.0	18.0
57.5°	24.0	25.0	25.0	28.0	24.0	30.0	25.0	18.0	20.0
60°	24.0	17.0	16.0	27.0	22.0	15.0	17.0	23.0	6.0
62.5°	18.0	17.0	19.0	27.0	19.0	22.0	17.0	27.0	18.0
65°	9.0	15.0	15.0	15.0	19.0	17.0	6.0	12.0	4.0
67.5°	13.0	7.0	6.0	13.0	16.0	11.0	5.0	5.0	9.0
70°	4.0	6.0	3.0	7.0	8.0	7.0	5.0	1.0	0.0
72.5°	7.0	3.0	7.0	6.0	10.0	7.0	6.0	5.0	4.0
75°	17.0	13.0	11.0	12.0	10.0	6.0	12.0	12.0	7.0
77.5°	0.0	0.0	2.0	0.0	0.0	0.0	1.0	0.0	0.0
80°	9.0	7.0	7.0	7.0	4.0	6.0	3.0	1.0	11.0
82.5°	9.0	11.0	11.0	5.0	13.0	8.0	7.0	2.0	11.0
85°	6.0	11.0	6.0	5.0	11.0	9.0	7.0	3.0	15.0
87.5°	0.0	6.0	6.0	4.0	6.0	2.0	5.0	3.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)