

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: P247882

Luminaire Tested: **LD8B200D010 ER8B200835 8LBSOLI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247882
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-91)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD8B200D010 ER8B200835 8LBS0LI
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED
DOWNLIGHT
80 CRI 3500 CCT WITH SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24137.0 lumens
Efficiency: N/A
Efficacy: 108.1 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.24
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

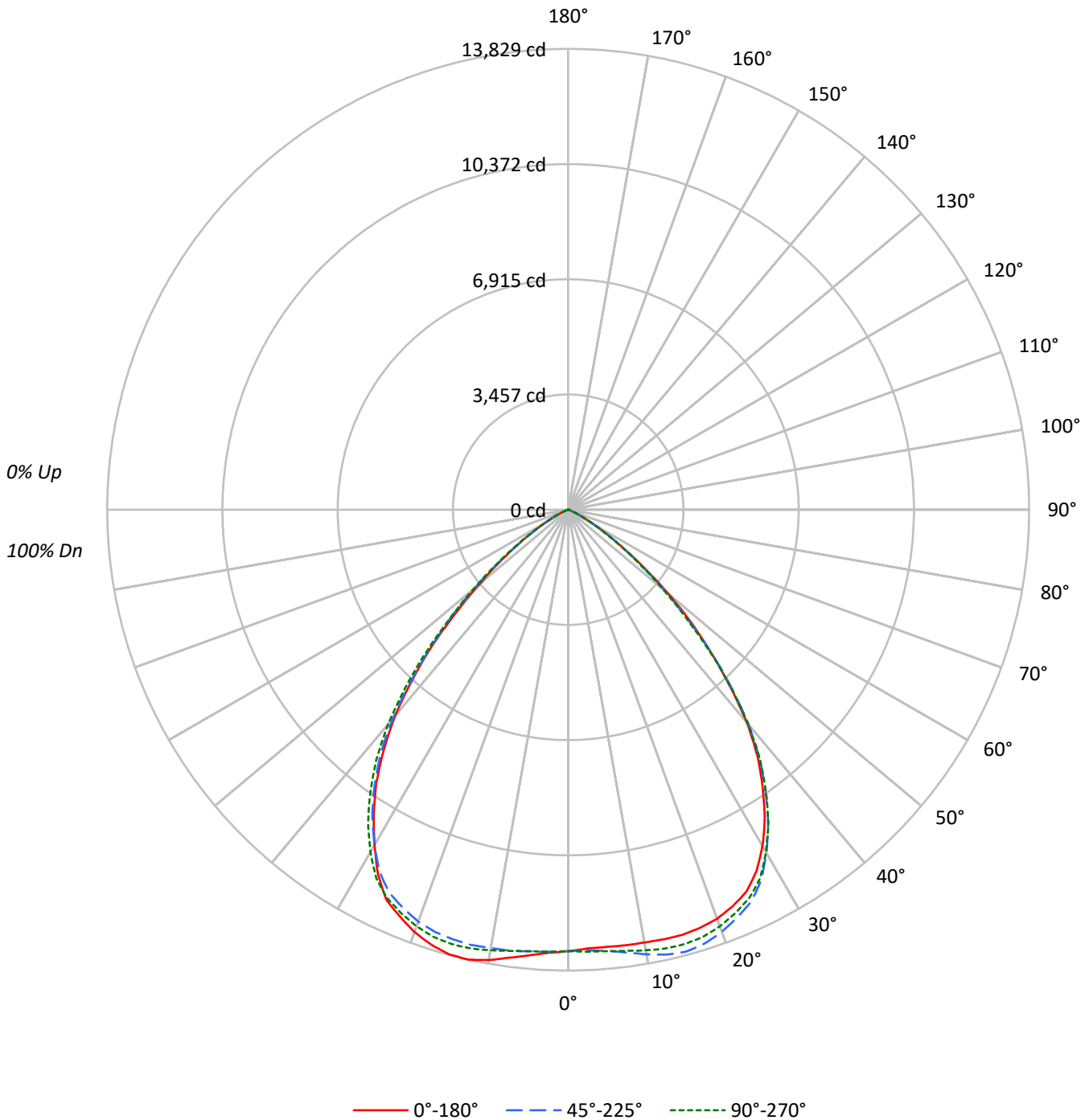
Input Watts (W): 223.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	112	109	106	103	110	107	104	102	103	101	99	99	97	96	95	94	93	91					91			
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	86	83	82					82			
3	98	90	84	79	96	89	83	79	86	81	77	84	80	76	81	78	75	73					73			
4	92	82	76	70	90	81	75	70	79	73	69	77	72	68	75	71	67	66					66			
5	86	75	68	63	84	74	68	63	72	66	62	71	65	61	69	64	61	59					59			
6	80	69	62	57	78	68	61	56	67	60	56	65	60	55	64	59	55	53					53			
7	75	64	56	51	73	63	56	51	61	55	51	60	55	50	59	54	50	48					48			
8	70	59	51	46	69	58	51	46	57	51	46	56	50	46	55	50	46	44					44			
9	66	54	47	42	65	54	47	42	53	47	42	52	46	42	51	46	42	40					40			
10	62	51	44	39	61	50	43	39	49	43	39	48	43	39	47	42	39	37					37			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	408495	408495	408495
5°	407709	411621	415454
10°	412840	420383	429717
15°	421759	430892	440920
20°	428640	436545	442574
25°	430303	437322	439449
30°	415064	422313	413593
35°	382804	389516	378042
40°	335625	338145	325288
45°	263547	261398	251415
50°	187257	178507	166312
55°	111399	107394	100598
60°	55894	53594	53186
65°	23502	22626	23210
70°	8763	7555	7321
75°	3491	3801	3801
80°	4013	2841	941
85°	4246	7996	3290



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1274.0	5.3
10°-20°	3814.4	15.8
20°-30°	5862.3	24.3
30°-40°	6342.0	26.3
40°-50°	4571.1	18.9
50°-60°	1855.5	7.7
60°-70°	370.6	1.5
70°-80°	37.1	0.2
80°-90°	10.0	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°	10950.7	45.4
0°-40°	17292.7	71.6
0°-60°	23719.3	98.3
0°-90°	24137.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	24137.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	13247	13247	13247	13247	13247	
5°	13171	13283	13298	13303	13422	###
15°	13211	13724	13497	13347	13812	3733
25°	12647	12984	12853	12688	12916	5781
35°	10169	10318	10347	10136	10042	6315
45°	6043	6073	5994	5793	5765	4661
55°	2072	2008	1998	1930	1871	1944
65°	322	349	310	295	318	383
75°	29	36	32	31	32	38
85°	12	17	23	11	9	10
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°	13247.2	13247.2	13247.2	13247.2	13247.2	13247.2	13247.2	13247.2	13247.2
2.5°	13179.3	13263.2	13235.2	13199.3	13275.2	13260.5	13276.5	13283.2	13308.4
5°	13171.4	13265.8	13283.2	13244.6	13297.8	13272.5	13303.1	13360.3	13421.6
7.5°	13184.7	13327.1	13401.6	13379.0	13353.7	13267.2	13347.0	13478.8	13560.0
10°	13184.7	13373.6	13546.7	13545.3	13425.6	13264.5	13353.7	13581.3	13723.7
12.5°	13206.0	13437.5	13674.4	13690.4	13486.8	13283.2	13379.0	13647.8	13828.8
15°	13211.3	13438.9	13723.7	13731.6	13497.4	13257.9	13347.0	13635.8	13811.5
17.5°	13155.4	13375.0	13645.1	13673.1	13437.5	13194.0	13284.5	13542.7	13682.4
20°	13062.2	13259.2	13478.8	13525.4	13303.1	13071.5	13151.4	13373.6	13486.8
22.5°	12883.9	13063.6	13244.6	13279.2	13100.8	12898.5	12938.5	13111.5	13206.0
25°	12647.0	12825.3	12983.7	13002.3	12853.3	12672.3	12688.3	12820.0	12915.8
27.5°	12226.5	12395.5	12539.2	12561.8	12472.7	12279.7	12250.4	12313.0	12352.9
30°	11656.9	11772.6	11892.4	11964.3	11860.5	11700.8	11618.3	11651.5	11615.6
32.5°	10972.8	11091.3	11164.4	11187.1	11171.1	11031.4	10934.2	10850.4	10855.7
35°	10169.0	10276.8	10318.0	10359.3	10347.3	10238.2	10135.7	10057.2	10042.5
37.5°	9326.6	9398.4	9445.0	9476.9	9450.3	9381.1	9248.0	9112.3	9089.7
40°	8337.7	8446.9	8409.6	8425.6	8400.3	8312.4	8179.4	8102.2	8080.9
42.5°	7177.2	7273.1	7265.1	7270.4	7214.5	7094.7	6978.9	6936.4	6913.7
45°	6043.4	6089.9	6072.6	6016.7	5994.1	5919.6	5793.2	5712.0	5765.2
47.5°	4976.0	4960.1	4844.3	4799.0	4765.8	4776.4	4748.5	4606.0	4528.9
50°	3903.4	3862.1	3751.6	3683.8	3721.0	3750.3	3646.5	3561.3	3466.8
52.5°	2894.6	2902.6	2797.4	2722.9	2757.5	2762.8	2701.6	2653.7	2625.8
55°	2072.1	2072.1	2008.2	1984.3	1997.6	1972.3	1929.7	1913.8	1871.2
57.5°	1409.4	1418.7	1414.7	1386.7	1324.2	1301.6	1277.6	1301.6	1316.2
60°	906.3	928.9	924.9	922.3	869.0	815.8	838.4	859.7	862.4
62.5°	557.6	568.3	586.9	570.9	544.3	501.7	496.4	528.3	557.6
65°	322.1	334.0	348.7	338.0	310.1	303.4	295.4	312.7	318.1
67.5°	183.7	178.3	179.7	171.7	163.7	154.4	155.7	163.7	175.7
70°	97.2	83.8	85.2	77.2	83.8	74.5	71.9	78.5	81.2
72.5°	49.2	47.9	54.6	54.6	58.6	51.9	51.9	49.2	55.9
75°	29.3	33.3	35.9	39.9	31.9	30.6	30.6	30.6	31.9
77.5°	8.0	4.0	5.3	17.3	6.7	13.3	6.7	5.3	12.0
80°	22.6	13.3	8.0	14.6	16.0	8.0	20.0	18.6	5.3
82.5°	8.0	0.0	14.6	16.0	13.3	13.3	16.0	16.0	14.6
85°	12.0	8.0	17.3	20.0	22.6	13.3	10.6	6.7	9.3
87.5°	5.3	0.0	8.0	6.7	4.0	1.3	4.0	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)