

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: P247638

Luminaire Tested: **LSR8B80D010 EC8B80850 8LBS0B**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247638
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-87)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B80D010 EC8B80850 8LBS0B
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 5000 CCT WITH SPECULAR BLACK TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7876.0 lumens
Efficiency: N/A
Efficacy: 105.9 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.18 / 1.23
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

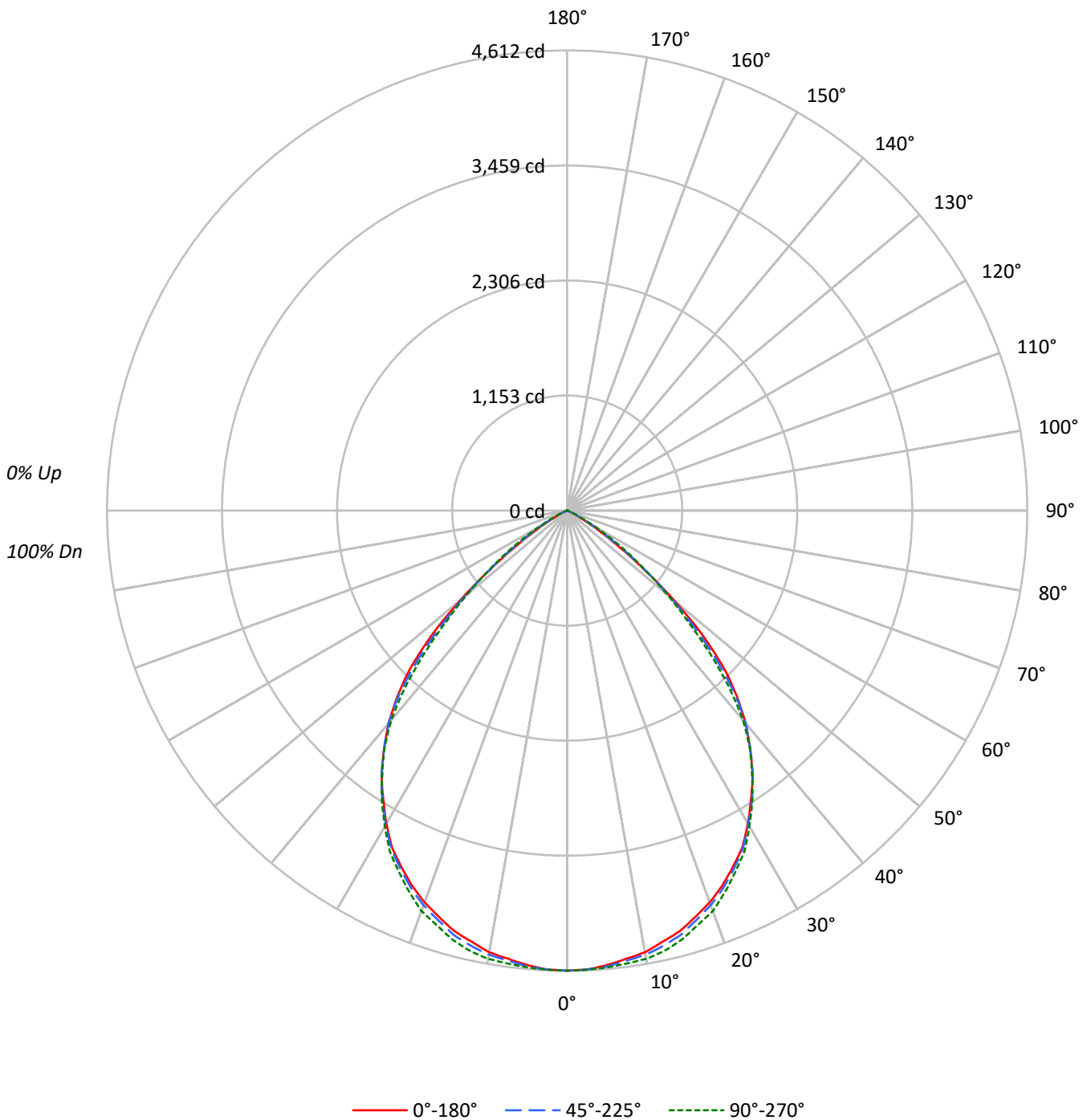
Input Watts (W): 74.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	83	79	76	81	78	75	73					73			
4	91	82	75	70	89	81	75	70	79	73	69	77	72	68	75	71	67	65					65			
5	85	75	68	63	84	74	67	62	72	66	62	70	65	61	69	64	61	59					59			
6	80	69	62	56	78	68	61	56	66	60	56	65	59	55	63	59	55	53					53			
7	75	63	56	51	73	63	56	51	61	55	50	60	54	50	59	54	50	48					48			
8	70	58	51	46	69	58	51	46	57	50	46	55	50	46	54	49	45	44					44			
9	66	54	47	42	64	54	47	42	52	46	42	51	46	42	51	45	42	40					40			
10	62	50	43	39	61	50	43	39	49	43	39	48	42	38	47	42	38	37					37			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	142202	142202	142202
5°	141556	141931	142274
10°	140751	141512	142842
15°	139330	140527	142046
20°	137102	138100	140128
25°	133919	134640	135848
30°	128967	129292	130121
35°	121971	122163	121666
40°	112079	111958	110409
45°	96381	92447	88208
50°	67004	64624	62825
55°	34961	38009	40240
60°	14179	16738	19427
65°	4509	5545	5910
70°	640	370	180
75°	0	0	0
80°	1616	355	533
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	435.5	5.5
10°-20°	1239.3	15.7
20°-30°	1820.6	23.1
30°-40°	2015.7	25.6
40°-50°	1606.4	20.4
50°-60°	658.2	8.4
60°-70°	96.9	1.2
70°-80°	1.4	0.0
80°-90°	2.0	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°	3495.5	44.4
0°-40°	5511.1	70.0
0°-60°	7775.7	98.7
0°-90°	7876.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7876.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4612	4612	4612	4612	4612	
5°	4573	4581	4585	4592	4596	434
15°	4364	4367	4402	4443	4450	1228
25°	3936	3932	3957	3980	3993	1810
35°	3240	3236	3245	3241	3232	2014
45°	2210	2190	2120	2041	2023	1659
55°	650	672	707	748	748	626
65°	62	65	76	83	81	82
75°	0	0	0	0	0	3
85°	0	0	0	4	0	3
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4611.5	4611.5	4611.5	4611.5	4611.5
2.5°	4603.4	4604.5	4604.5	4599.4	4605.5
5°	4573.1	4581.2	4585.2	4592.3	4596.3
7.5°	4530.5	4528.5	4549.8	4575.1	4578.1
10°	4495.1	4491.0	4519.4	4552.8	4561.9
12.5°	4425.2	4430.2	4466.7	4501.1	4519.4
15°	4364.4	4367.4	4401.9	4443.4	4449.5
17.5°	4270.2	4279.3	4302.6	4346.2	4354.3
20°	4178.0	4182.1	4208.4	4243.9	4270.2
22.5°	4065.6	4072.7	4093.0	4124.4	4137.5
25°	3936.0	3931.9	3957.2	3980.5	3992.7
27.5°	3804.3	3797.2	3816.4	3838.7	3849.9
30°	3622.0	3620.0	3631.1	3645.3	3654.4
32.5°	3430.5	3435.6	3446.8	3450.8	3453.8
35°	3240.1	3236.1	3245.2	3241.1	3232.0
37.5°	3014.3	3017.3	3017.3	3013.3	3009.2
40°	2784.3	2787.4	2781.3	2759.0	2742.8
42.5°	2514.9	2517.0	2485.6	2435.9	2402.5
45°	2210.1	2189.8	2119.9	2040.9	2022.7
47.5°	1826.2	1791.7	1718.8	1659.1	1637.8
50°	1396.7	1371.4	1347.1	1315.7	1309.6
52.5°	979.4	992.6	1001.7	1011.8	1008.8
55°	650.3	672.5	707.0	747.5	748.5
57.5°	391.0	416.3	459.8	504.4	525.7
60°	229.9	240.0	271.4	304.9	315.0
62.5°	124.6	127.6	141.8	175.2	170.2
65°	61.8	64.8	76.0	83.1	81.0
67.5°	30.4	33.4	35.5	45.6	37.5
70°	7.1	2.0	4.1	5.1	2.0
72.5°	0.0	0.0	2.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0
77.5°	2.0	0.0	0.0	0.0	4.1
80°	9.1	6.1	2.0	2.0	3.0
82.5°	3.0	1.0	3.0	1.0	0.0
85°	0.0	0.0	0.0	4.1	0.0
87.5°	5.1	1.0	1.0	3.0	5.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)