

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: P247266

Luminaire Tested: **LSR8B80D010 EC8B80935 8LBW0WMH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247266
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-59)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B80D010 EC8B80935 8LBW0WMH
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
90 CRI 3500 CCT WITH WARM HAZE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7035.0 lumens
Efficiency: N/A
Efficacy: 94.6 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.14 / 1.06
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

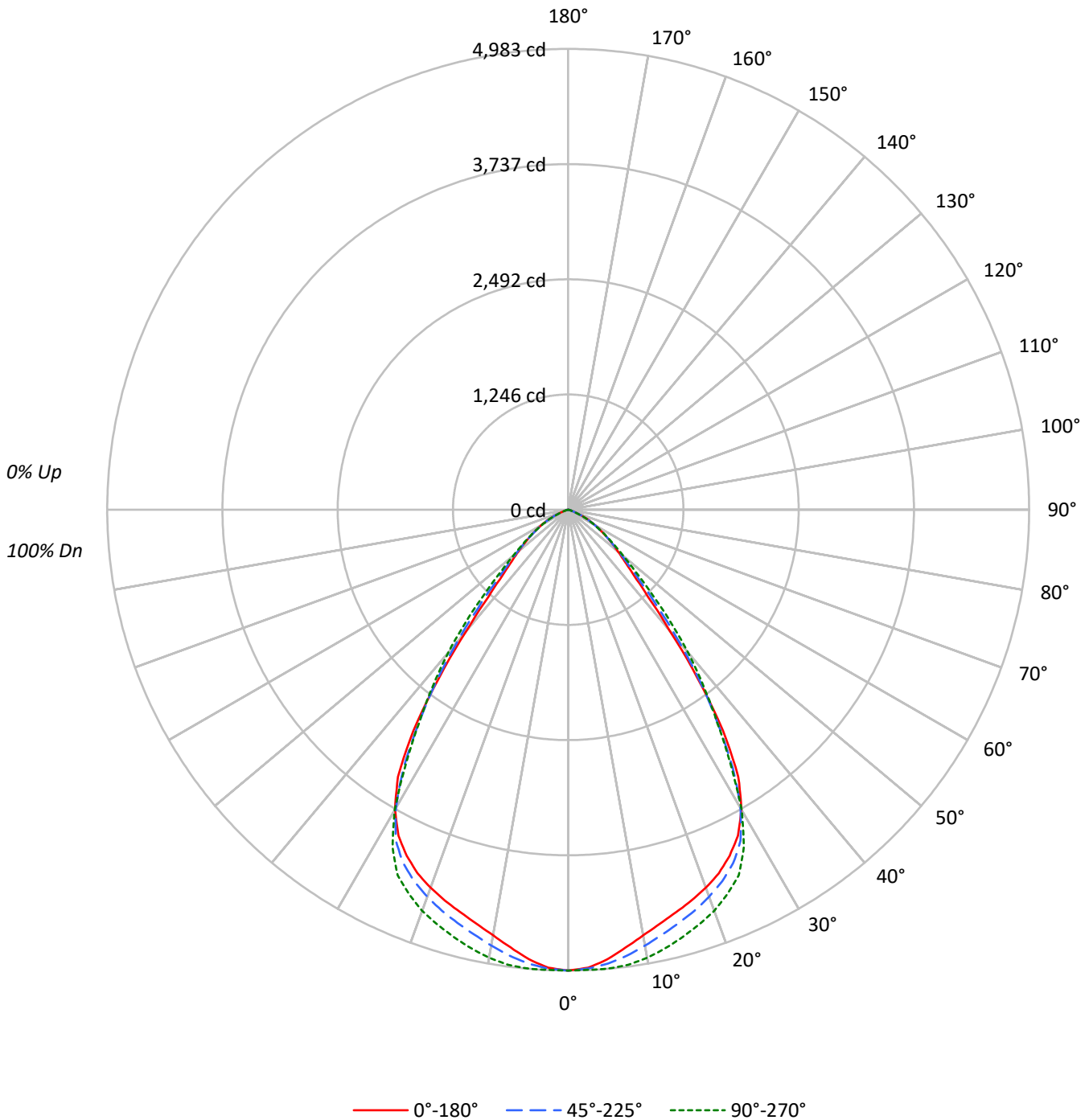
Input Watts (W): 74.4
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	104	110	107	104	102	103	101	99	99	98	96	96	94	93	91					91			
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	86	84	83					83			
3	99	91	85	81	97	90	84	80	87	83	79	85	81	78	82	79	76	75					75			
4	93	84	77	72	91	83	77	72	80	75	71	78	74	70	76	72	69	68					68			
5	87	77	70	65	85	76	70	65	74	69	64	72	68	64	71	67	63	61					61			
6	82	71	64	59	80	70	64	59	69	63	59	67	62	58	66	61	58	56					56			
7	77	66	59	54	75	65	59	54	64	58	54	63	57	53	61	57	53	51					51			
8	72	61	54	50	71	61	54	49	59	54	49	58	53	49	57	52	49	47					47			
9	68	57	50	46	67	57	50	46	56	50	45	55	49	45	54	49	45	44					44			
10	65	53	47	42	63	53	47	42	52	46	42	51	46	42	50	45	42	40					40			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	153670	153670	153670
5°	151037	152489	154179
10°	146321	149875	154039
15°	143847	147659	152693
20°	142714	146156	151446
25°	140455	143561	148376
30°	133265	132720	133568
35°	109850	105965	105709
40°	68826	74969	81180
45°	43622	48493	54590
50°	33586	34895	37352
55°	26590	26499	27461
60°	20722	20303	20198
65°	13936	13374	13002
70°	6383	5842	5536
75°	3050	2740	2538
80°	1509	1367	1367
85°	920	920	601



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	466.0	6.6
10°-20°	1308.7	18.6
20°-30°	1927.4	27.4
30°-40°	1753.0	24.9
40°-50°	907.5	12.9
50°-60°	454.6	6.5
60°-70°	185.1	2.6
70°-80°	29.5	0.4
80°-90°	3.2	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°	3702.1	52.6
0°-40°	5455.0	77.5
0°-60°	6817.2	96.9
0°-90°	7035.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7035.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4983	4983	4983	4983	4983	
5°	4879	4892	4926	4964	4981	459
15°	4506	4537	4625	4732	4783	1273
25°	4128	4156	4219	4316	4361	1890
35°	2918	2899	2815	2791	2808	1760
45°	1000	1035	1112	1198	1252	824
55°	495	493	493	502	511	449
65°	191	190	183	181	178	193
75°	26	25	23	21	21	32
85°	3	3	3	2	2	3
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4983.4	4983.4	4983.4	4983.4	4983.4
2.5°	4957.0	4959.6	4966.4	4974.1	4980.0
5°	4879.4	4892.2	4926.3	4963.8	4980.9
7.5°	4773.7	4801.8	4864.1	4934.0	4964.7
10°	4673.0	4705.5	4786.5	4880.3	4919.5
12.5°	4584.4	4615.9	4703.7	4808.6	4857.2
15°	4505.9	4536.6	4625.3	4731.9	4783.0
17.5°	4431.7	4459.9	4544.3	4650.9	4702.9
20°	4349.0	4373.7	4453.9	4557.1	4615.1
22.5°	4255.2	4274.0	4349.0	4447.1	4498.2
25°	4128.1	4156.3	4219.4	4315.7	4360.9
27.5°	3972.9	3990.8	4034.3	4093.2	4111.9
30°	3742.7	3741.8	3727.4	3727.4	3751.2
32.5°	3422.9	3382.0	3312.9	3271.1	3267.7
35°	2918.1	2899.3	2814.9	2791.0	2808.1
37.5°	2302.4	2315.2	2336.5	2370.6	2401.3
40°	1709.8	1742.2	1862.4	1969.8	2016.7
42.5°	1275.7	1317.5	1440.3	1558.0	1615.1
45°	1000.3	1035.2	1112.0	1198.1	1251.8
47.5°	827.2	845.1	886.0	944.0	971.3
50°	700.1	708.6	727.4	757.2	778.6
52.5°	594.4	591.0	601.2	620.8	628.5
55°	494.6	492.9	492.9	502.3	510.8
57.5°	410.2	407.6	402.5	406.8	409.3
60°	336.0	333.4	329.2	328.3	327.5
62.5°	270.3	266.1	257.5	255.8	255.8
65°	191.0	190.2	183.3	180.8	178.2
67.5°	118.5	115.1	109.2	104.0	103.2
70°	70.8	69.9	64.8	61.4	61.4
72.5°	42.6	40.9	38.4	36.7	35.8
75°	25.6	24.7	23.0	21.3	21.3
77.5°	15.3	14.5	13.6	12.8	12.8
80°	8.5	8.5	7.7	7.7	7.7
82.5°	5.1	5.1	4.3	4.3	4.3
85°	2.6	2.6	2.6	1.7	1.7
87.5°	0.9	0.9	0.9	0.9	0.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)