

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: P247481

Luminaire Tested: **LSR8B120D010 EC8B120827 8LBW0GPH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247481
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-61)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B120D010 EC8B120827 8LBW0GPH
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 2700 CCT WITH GRAPHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10491.0 lumens
Efficiency: N/A
Efficacy: 88.7 lumens/watt
Spacing Criteria (0/90/45): 1.12 / 1.13 / 1.05
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

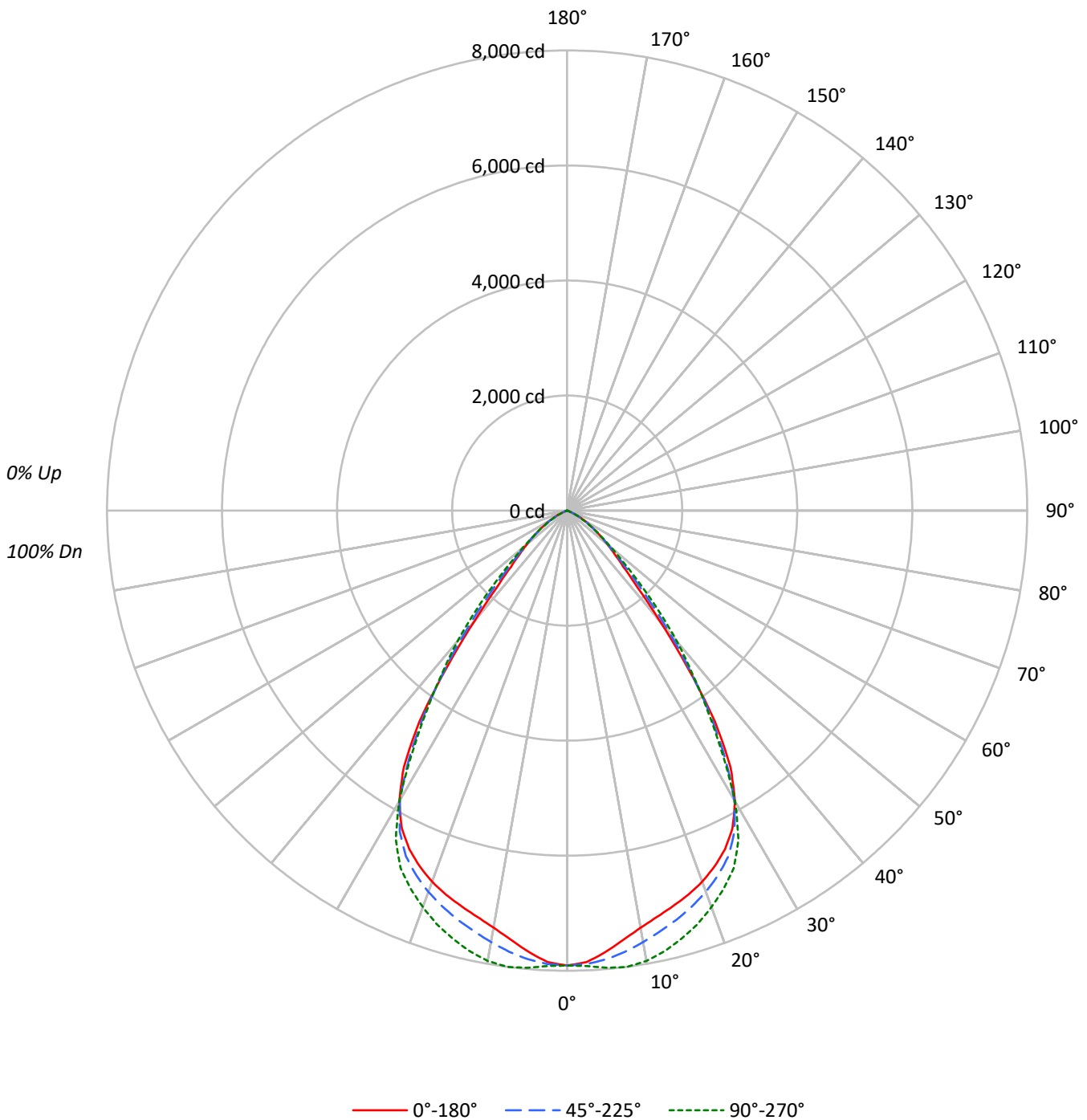
Input Watts (W): 118.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	113	110	107	104	110	107	105	103	103	101	100	100	98	97	96	95	94	92					92			
2	106	101	96	92	104	99	95	91	96	92	89	93	90	87	90	88	85	84					84			
3	100	93	87	82	98	91	86	82	88	84	80	86	82	79	84	81	78	76					76			
4	94	85	79	74	92	84	78	74	82	77	73	80	75	72	78	74	71	69					69			
5	88	79	72	67	86	78	72	67	76	70	66	74	69	66	72	68	65	63					63			
6	83	73	66	61	81	72	66	61	70	65	61	69	64	60	68	63	60	58					58			
7	78	68	61	56	77	67	61	56	66	60	56	64	59	55	63	59	55	53					53			
8	74	63	56	52	72	62	56	52	61	55	51	60	55	51	59	54	51	49					49			
9	70	59	52	48	68	58	52	48	57	52	47	56	51	47	55	51	47	46					46			
10	66	55	49	44	65	55	48	44	54	48	44	53	48	44	52	47	44	42					42			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	243881	243881	243881
5°	238353	242374	246995
10°	230466	238513	248899
15°	227204	234971	245867
20°	225294	231463	240759
25°	220946	225648	233218
30°	207701	206914	207897
35°	168759	163090	160594
40°	100188	110425	119603
45°	59963	67498	76656
50°	43689	44816	48131
55°	31649	30537	31203
60°	21481	19859	19094
65°	10792	9982	9478
70°	2993	2615	2371
75°	1156	822	822
80°	497	497	249
85°	495	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	741.5	7.1
10°-20°	2082.4	19.8
20°-30°	3026.7	28.9
30°-40°	2676.6	25.5
40°-50°	1273.3	12.1
50°-60°	530.4	5.1
60°-70°	148.2	1.4
70°-80°	11.2	0.1
80°-90°	0.8	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°	5850.6	55.8
0°-40°	8527.2	81.3
0°-60°	10330.8	98.5
0°-90°	10491.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10491.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7909	7909	7909	7909	7909	
5°	7700	7739	7830	7934	7979	724
15°	7117	7182	7360	7584	7702	2010
25°	6494	6523	6632	6778	6854	2968
35°	4483	4420	4332	4266	4266	2683
45°	1375	1423	1548	1692	1758	1145
55°	589	582	568	568	580	536
65°	148	145	137	131	130	161
75°	10	8	7	7	7	13
85°	1	1	0	0	0	1
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	7908.9	7908.9	7908.9	7908.9	7908.9
2.5°	7856.4	7863.3	7889.5	7914.4	7925.5
5°	7700.2	7738.9	7830.1	7933.8	7979.4
7.5°	7521.9	7580.0	7733.4	7915.8	8000.1
10°	7360.3	7433.5	7617.3	7842.6	7949.0
12.5°	7233.1	7300.8	7488.8	7723.7	7843.9
15°	7117.0	7182.0	7360.3	7584.1	7701.6
17.5°	7000.9	7063.1	7216.5	7425.2	7538.5
20°	6865.5	6915.3	7053.5	7237.3	7336.8
22.5°	6696.9	6742.5	6858.6	7021.7	7111.5
25°	6493.8	6522.8	6632.0	6778.5	6854.5
27.5°	6224.3	6231.2	6297.5	6392.9	6449.5
30°	5833.2	5829.1	5811.1	5806.9	5838.7
32.5°	5285.9	5225.1	5120.1	5070.4	5031.7
35°	4483.0	4419.5	4332.4	4266.1	4266.1
37.5°	3427.2	3482.5	3517.1	3558.5	3579.2
40°	2488.9	2570.4	2743.2	2922.8	2971.2
42.5°	1809.0	1885.0	2071.5	2271.9	2330.0
45°	1375.0	1423.4	1547.8	1691.5	1757.8
47.5°	1111.1	1124.9	1187.1	1272.8	1304.6
50°	910.7	914.8	934.2	978.4	1003.3
52.5°	736.6	733.8	739.3	751.8	762.8
55°	588.7	581.8	568.0	568.0	580.4
57.5°	454.7	445.0	429.8	422.9	418.7
60°	348.3	338.6	322.0	310.9	309.6
62.5°	250.1	241.8	225.3	215.6	212.8
65°	147.9	145.1	136.8	131.3	129.9
67.5°	69.1	66.3	59.4	56.7	55.3
70°	33.2	31.8	29.0	27.6	26.3
72.5°	16.6	16.6	13.8	13.8	13.8
75°	9.7	8.3	6.9	6.9	6.9
77.5°	5.5	4.1	4.1	4.1	4.1
80°	2.8	2.8	2.8	1.4	1.4
82.5°	1.4	1.4	1.4	1.4	1.4
85°	1.4	1.4	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)