

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: P247814

Luminaire Tested: **LSR8B150D010 EC8B150850 8LBNOLI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247814
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 EC8B150850 8LBN0LI
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 5000 CCT WITH SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15200.0 lumens
Efficiency: N/A
Efficacy: 95.9 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

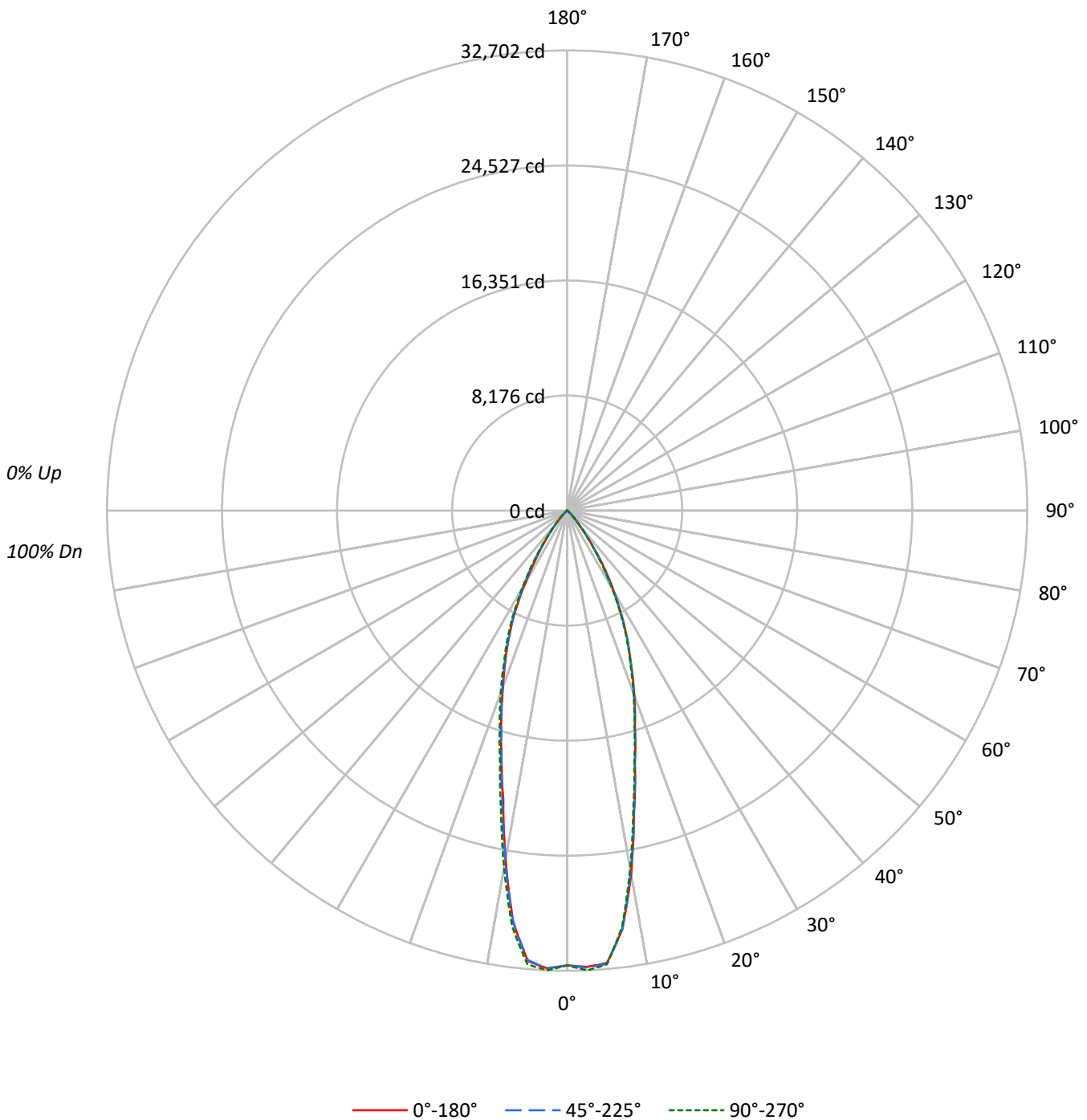
Input Watts (W): 158.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	996565	996565	996565
5°	999211	1001845	994729
10°	820469	807496	787388
15°	594500	588454	574905
20°	458630	452382	437458
25°	344392	340292	328952
30°	235008	228446	210592
35°	132846	127166	116411
40°	53453	55575	53493
45°	22040	22616	20937
50°	6707	6611	4812
55°	1909	1414	978
60°	1499	1375	376
65°	664	1401	299
70°	370	730	0
75°	2049	1203	846
80°	1616	728	1971
85°	2158	3927	5378



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2856.6	18.8
10°-20°	5176.5	34.1
20°-30°	4510.4	29.7
30°-40°	2148.4	14.1
40°-50°	446.4	2.9
50°-60°	35.5	0.2
60°-70°	13.7	0.1
70°-80°	6.1	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°	12543.6	82.5
0°-40°	14691.9	96.7
0°-60°	15173.8	99.8
0°-90°	15200.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15200.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	32318	32318	32318	32318	32318	
5°	32280	32332	32366	32062	32136	###
15°	18622	18624	18433	18051	18008	5259
25°	10122	10112	10002	9701	9668	4601
35°	3529	3410	3378	3207	3092	2259
45°	505	559	519	465	480	447
55°	36	27	26	24	18	39
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°	32317.9	32317.9	32317.9	32317.9	32317.9	32317.9	32317.9	32317.9	32317.9
2.5°	32458.7	32464.8	32515.4	32660.2	32701.8	32669.4	32560.0	32520.5	32560.0
5°	32280.4	32259.1	32332.1	32439.4	32365.5	32232.8	32061.6	32022.1	32135.6
7.5°	29995.3	29981.1	30050.0	30041.9	29846.4	29596.2	29453.4	29340.9	29438.2
10°	26203.0	26076.3	26030.8	26110.8	25788.7	25443.3	25237.6	25313.6	25146.5
12.5°	21933.5	21916.3	21997.4	21899.1	21712.7	21501.0	21248.8	21113.1	20991.5
15°	18622.3	18667.9	18624.4	18583.8	18432.9	18273.9	18051.1	17956.9	18008.5
17.5°	16023.2	16010.0	15964.5	16032.3	15915.8	15687.9	15492.4	15525.9	15582.6
20°	13976.1	13920.4	13813.0	13841.4	13785.7	13608.4	13430.2	13310.6	13330.9
22.5°	11866.2	11914.9	11901.7	11817.6	11730.5	11600.9	11513.7	11357.8	11430.7
25°	10122.0	10130.1	10111.9	10099.7	10001.5	9876.9	9700.6	9663.2	9668.2
27.5°	8337.3	8375.7	8360.6	8308.9	8209.6	8105.3	7995.9	7909.8	7901.7
30°	6600.1	6654.8	6546.4	6472.5	6415.8	6397.5	6214.2	6085.6	5914.4
32.5°	5107.1	5026.1	4680.7	4681.7	4792.1	4835.6	4660.4	4368.7	4321.1
35°	3529.0	3514.8	3409.5	3377.0	3378.1	3335.5	3206.9	3093.4	3092.4
37.5°	2212.2	2264.9	2323.6	2310.4	2180.8	2049.1	1987.3	2054.2	2073.4
40°	1327.9	1396.8	1467.7	1475.8	1380.6	1228.7	1209.4	1271.2	1328.9
42.5°	831.6	861.0	908.6	917.7	849.8	794.1	758.7	803.2	803.2
45°	505.4	532.8	559.1	561.2	518.6	472.0	464.9	482.1	480.1
47.5°	297.8	298.8	308.9	301.8	287.7	265.4	256.3	265.4	267.4
50°	139.8	136.7	141.8	155.0	137.8	116.5	118.5	111.4	100.3
52.5°	33.4	30.4	36.5	39.5	38.5	40.5	38.5	38.5	29.4
55°	35.5	22.3	27.3	28.4	26.3	28.4	24.3	16.2	18.2
57.5°	24.3	25.3	25.3	28.4	24.3	30.4	25.3	18.2	20.3
60°	24.3	17.2	16.2	27.3	22.3	15.2	17.2	23.3	6.1
62.5°	18.2	17.2	19.2	27.3	19.2	22.3	17.2	27.3	18.2
65°	9.1	15.2	15.2	15.2	19.2	17.2	6.1	12.2	4.1
67.5°	13.2	7.1	6.1	13.2	16.2	11.1	5.1	5.1	9.1
70°	4.1	6.1	3.0	7.1	8.1	7.1	5.1	1.0	0.0
72.5°	7.1	3.0	7.1	6.1	10.1	7.1	6.1	5.1	4.1
75°	17.2	13.2	11.1	12.2	10.1	6.1	12.2	12.2	7.1
77.5°	0.0	0.0	2.0	0.0	0.0	0.0	1.0	0.0	0.0
80°	9.1	7.1	7.1	7.1	4.1	6.1	3.0	1.0	11.1
82.5°	9.1	11.1	11.1	5.1	13.2	8.1	7.1	2.0	11.1
85°	6.1	11.1	6.1	5.1	11.1	9.1	7.1	3.0	15.2
87.5°	0.0	6.1	6.1	4.1	6.1	2.0	5.1	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)