

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: NEO-RAY

Report Number: P334781

Luminaire Tested: **S123IW-S755U935-4F0-1E-UDD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P334781
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-5)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S123IW-S755U935-4F0-1E-UDD
Description: DEFINE 3 INDIRECT LED LUMINAIRE, NO LENS
WALL MOUNT, 755 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

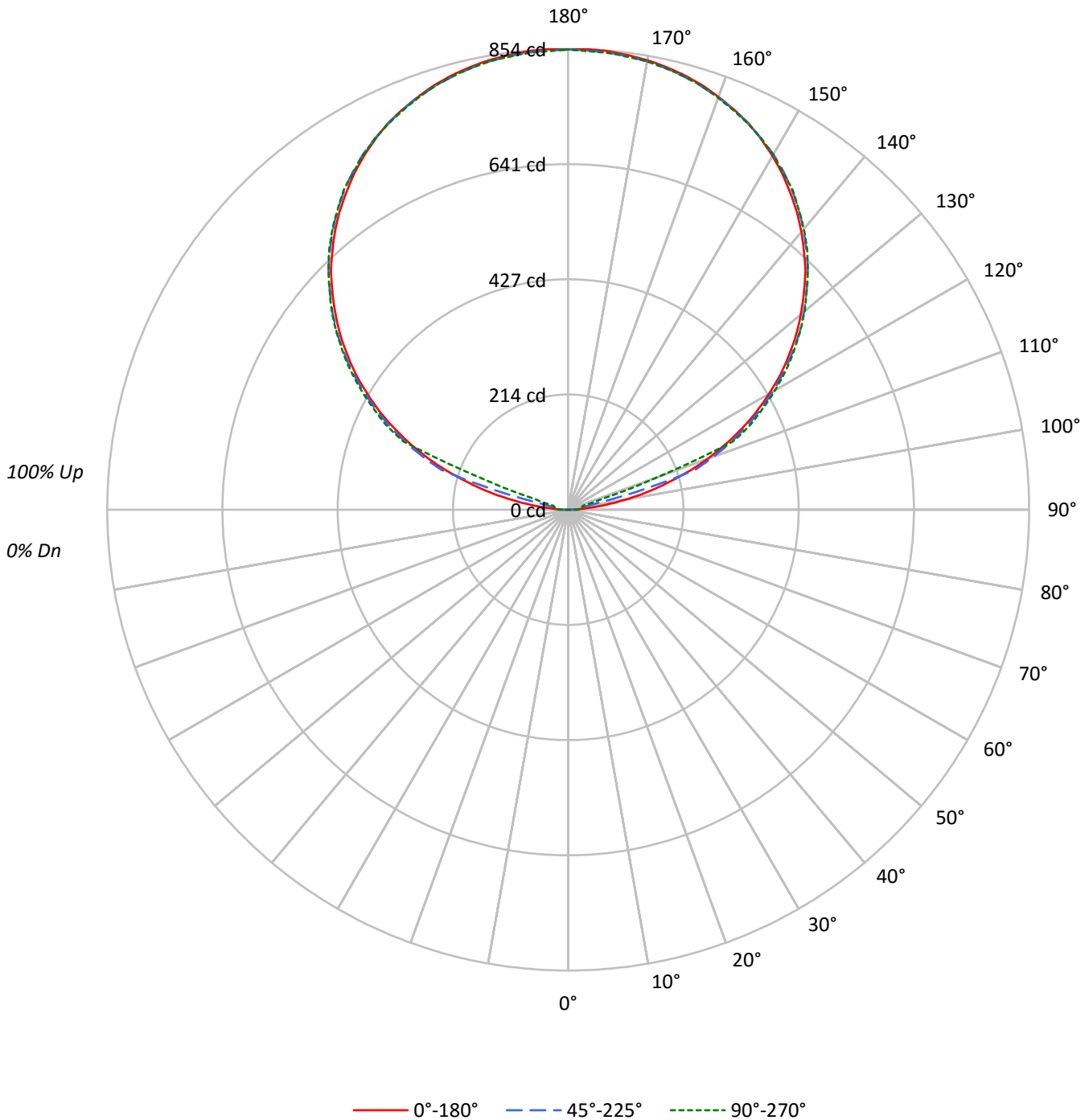
Lumens per Lamp: N/A
Luminaire Lumens: 2601.5 lumens
Efficiency: N/A
Efficacy: 185.8 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.25' x L: 4' x H: 0')
CIE Type: Indirect

Input Watts (W): 14
Input Voltage (V): 120
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	95	95	95	95	81	81	81	81	56	56	56	32	32	32	10	10	10	0
1	87	83	79	76	74	71	68	65	48	47	45	28	27	26	9	9	8	0
2	79	72	66	62	67	62	57	53	42	40	37	24	23	22	8	7	7	0
3	72	63	56	51	61	54	49	44	37	34	31	21	20	18	7	6	6	0
4	65	56	48	43	56	48	42	37	33	29	26	19	17	16	6	6	5	0
5	60	49	42	36	51	42	36	32	29	25	22	17	15	13	5	5	4	0
6	55	44	36	31	47	38	32	27	26	22	19	15	13	11	5	4	4	0
7	50	39	32	27	43	34	28	23	23	19	17	14	11	10	4	4	3	0
8	47	35	28	23	40	30	24	20	21	17	14	12	10	9	4	3	3	0
9	43	32	25	20	37	27	22	18	19	15	13	11	9	8	4	3	3	0
10	40	29	22	18	34	25	19	16	17	14	11	10	8	7	3	3	2	0

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	0	0	0
5°	0	0	0
10°	0	0	0
15°	0	0	0
20°	0	0	0
25°	0	0	0
30°	0	0	0
35°	0	0	0
40°	0	0	0
45°	0	0	0
50°	0	0	0
55°	0	0	0
60°	0	0	0
65°	0	0	0
70°	0	0	0
75°	0	0	0
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	0.0	0.0
10°-20°	0.0	0.0
20°-30°	0.0	0.0
30°-40°	0.0	0.0
40°-50°	0.0	0.0
50°-60°	0.0	0.0
60°-70°	0.0	0.0
70°-80°	0.0	0.0
80°-90°	1.7	0.1
90°-100°	30.1	1.2
100°-110°	145.4	5.6
110°-120°	356.3	13.7
120°-130°	452.3	17.4
130°-140°	483.2	18.6
140°-150°	451.8	17.4
150°-160°	364.4	14.0
160°-170°	235.2	9.0
170°-180°	81.1	3.1
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	1.7	0.1
90°-120°	531.8	20.4
90°-150°	1919.1	73.8
90°-180°	2600.0	99.9
0°-180°	2601.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	0	0	0	0	0	
5°	0	0	0	0	0	0
15°	0	0	0	0	0	0
25°	0	0	0	0	0	0
35°	0	0	0	0	0	0
45°	0	0	0	0	0	0
55°	0	0	0	0	0	0
65°	0	0	0	0	0	0
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	1	7	15	18	19	2
95°	39	13	20	24	24	46
105°	189	196	139	27	28	200
115°	354	358	364	370	372	350
125°	499	504	507	508	509	446
135°	622	625	628	630	628	479
145°	717	722	723	724	724	449
155°	790	789	789	793	789	364
165°	833	831	831	836	831	235
175°	853	850	850	855	850	81
180°	853	853	853	853	853	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	0.0	0.0	0.0	0.0	0.0
2.5°	0.0	0.0	0.0	0.0	0.0
5°	0.0	0.0	0.0	0.0	0.0
7.5°	0.0	0.0	0.0	0.0	0.0
10°	0.0	0.0	0.0	0.0	0.0
12.5°	0.0	0.0	0.0	0.0	0.0
15°	0.0	0.0	0.0	0.0	0.0
17.5°	0.0	0.0	0.0	0.0	0.0
20°	0.0	0.0	0.0	0.0	0.0
22.5°	0.0	0.0	0.0	0.0	0.0
25°	0.0	0.0	0.0	0.0	0.0
27.5°	0.0	0.0	0.0	0.0	0.0
30°	0.0	0.0	0.0	0.0	0.0
32.5°	0.0	0.0	0.0	0.0	0.0
35°	0.0	0.0	0.0	0.0	0.0
37.5°	0.0	0.0	0.0	0.0	0.0
40°	0.0	0.0	0.0	0.0	0.0
42.5°	0.0	0.0	0.0	0.0	0.0
45°	0.0	0.0	0.0	0.0	0.0
47.5°	0.0	0.0	0.0	0.0	0.0
50°	0.0	0.0	0.0	0.0	0.0
52.5°	0.0	0.0	0.0	0.0	0.0
55°	0.0	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.0	0.0	0.0
65°	0.0	0.0	0.0	0.0	0.0
67.5°	0.0	0.0	0.0	0.0	0.0
70°	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.6	7.0	15.2	17.7	19.0
92.5°	14.6	10.8	16.5	20.9	21.5
95°	38.6	12.7	19.6	24.1	24.1
97.5°	70.3	52.6	20.3	25.3	26.0
100°	107.1	119.7	20.9	26.0	26.6
102.5°	148.9	157.1	46.9	26.0	27.2
105°	188.8	195.8	138.8	26.6	27.9
107.5°	231.3	237.0	246.5	148.9	65.9
110°	273.7	278.8	285.7	264.8	174.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	314.3	318.7	325.7	331.4	330.1
115°	354.2	358.0	363.7	370.0	372.5
117.5°	393.5	397.9	401.1	406.1	406.8
120°	429.6	435.3	437.2	442.2	442.2
122.5°	466.3	470.7	473.3	476.4	477.1
125°	499.3	504.3	506.9	508.1	509.4
127.5°	532.2	537.3	540.4	542.3	541.1
130°	562.6	567.7	570.2	572.8	571.5
132.5°	591.8	596.8	598.7	601.3	599.4
135°	621.5	625.3	627.9	629.8	627.9
137.5°	646.9	651.9	653.2	656.4	655.1
140°	672.2	676.0	677.9	680.5	679.2
142.5°	695.7	699.5	701.4	703.3	701.4
145°	717.2	721.6	722.9	724.2	724.2
147.5°	738.1	741.3	742.6	743.8	740.6
150°	757.1	759.0	760.3	761.6	759.7
152.5°	774.2	774.9	775.5	778.0	774.9
155°	790.1	788.8	789.4	792.6	788.8
157.5°	802.7	802.7	802.1	805.9	800.8
160°	814.1	813.5	812.9	816.7	812.2
162.5°	824.9	823.0	822.4	826.8	823.0
165°	833.2	831.3	830.6	835.7	831.3
167.5°	840.1	837.6	837.6	842.7	837.6
170°	845.8	843.3	843.3	848.4	843.3
172.5°	849.6	846.5	847.1	852.2	846.5
175°	852.8	849.6	850.3	854.7	849.6
177.5°	854.1	850.9	851.5	856.6	850.3
180°	852.8	852.8	852.8	852.8	852.8

(END OF REPORT)