

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: P334766

Luminaire Tested: **S123IW-S755U840-4F0-1E-UDD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P334766
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-S755U840-4F0-1E-UDD
Description: DEFINE 3 INDIRECT LED LUMINAIRE, NO LENS
WALL MOUNT, 755 LUMENS PER FOOT
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

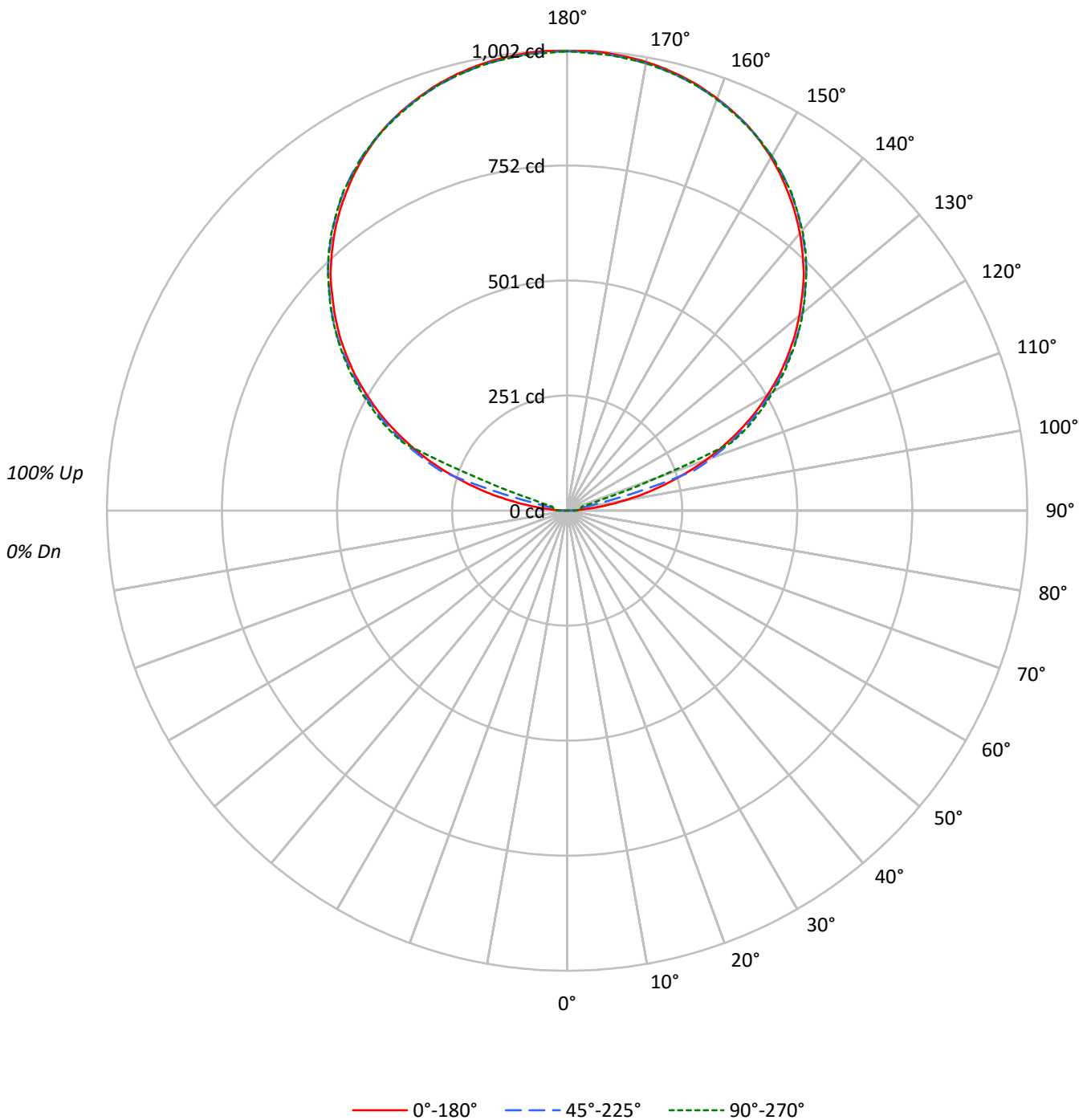
Lumens per Lamp: N/A
Luminaire Lumens: 3051.3 lumens
Efficiency: N/A
Efficacy: 217.9 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.25' x L: 4' x H: 0')
CIE Type: Indirect

Input Watts (W): 14
Input Voltage (V): 120
Input Current (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	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°	2.0	0.1
90°-100°	35.3	1.2
100°-110°	170.5	5.6
110°-120°	417.9	13.7
120°-130°	530.5	17.4
130°-140°	566.7	18.6
140°-150°	530.0	17.4
150°-160°	427.5	14.0
160°-170°	275.9	9.0
170°-180°	95.1	3.1
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	2.0	0.1
90°-120°	623.7	20.4
90°-150°	2250.9	73.8
90°-180°	3049.0	99.9
0°-180°	3051.3	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	8	18	21	22	3
95°	45	15	23	28	28	54
105°	221	230	163	31	33	235
115°	415	420	427	434	437	410
125°	586	592	594	596	598	523
135°	729	734	736	739	736	561
145°	841	846	848	849	849	527
155°	927	925	926	930	925	427
165°	977	975	974	980	975	276
175°	1000	996	997	1002	996	95
180°	1000	1000	1000	1000	1000	



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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°	0.7	8.2	17.8	20.8	22.3
92.5°	17.1	12.6	19.3	24.5	25.3
95°	45.3	14.9	23.0	28.2	28.2
97.5°	82.5	61.7	23.8	29.7	30.5
100°	125.6	140.4	24.5	30.5	31.2
102.5°	174.6	184.3	55.0	30.5	32.0
105°	221.4	229.6	162.7	31.2	32.7
107.5°	271.2	277.9	289.1	174.6	77.3
110°	321.0	327.0	335.1	310.6	204.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	368.6	373.8	382.0	388.7	387.2
115°	415.4	419.9	426.6	434.0	437.0
117.5°	461.5	466.7	470.4	476.3	477.1
120°	503.8	510.5	512.8	518.7	518.7
122.5°	546.9	552.1	555.1	558.8	559.6
125°	585.6	591.5	594.5	596.0	597.5
127.5°	624.2	630.2	633.9	636.1	634.6
130°	659.9	665.8	668.8	671.8	670.3
132.5°	694.1	700.0	702.2	705.2	703.0
135°	729.0	733.5	736.4	738.7	736.4
137.5°	758.7	764.7	766.2	769.9	768.4
140°	788.4	792.9	795.1	798.1	796.6
142.5°	815.9	820.4	822.6	824.9	822.6
145°	841.2	846.4	847.9	849.4	849.4
147.5°	865.7	869.4	870.9	872.4	868.7
150°	888.0	890.3	891.7	893.2	891.0
152.5°	908.1	908.8	909.6	912.6	908.8
155°	926.7	925.2	925.9	929.6	925.2
157.5°	941.5	941.5	940.8	945.2	939.3
160°	954.9	954.2	953.4	957.9	952.7
162.5°	967.5	965.3	964.6	969.8	965.3
165°	977.2	975.0	974.2	980.2	975.0
167.5°	985.4	982.4	982.4	988.3	982.4
170°	992.1	989.1	989.1	995.0	989.1
172.5°	996.5	992.8	993.6	999.5	992.8
175°	1000.2	996.5	997.3	1002.5	996.5
177.5°	1001.7	998.0	998.8	1004.7	997.3
180°	1000.2	1000.2	1000.2	1000.2	1000.2

(END OF REPORT)