

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: P334013

Luminaire Tested: **S123DW-S1000D935-4F0-1E-UDD-F**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P334013
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-11)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S123DW-S1000D935-4F0-1E-UDD-F
Description: DEFINE 3 DIRECT LED LUMINAIRE, FLUSH SATIN WHITE DIFFUSER
PENDANT/SURFACE/WALL MOUNT, 1000 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

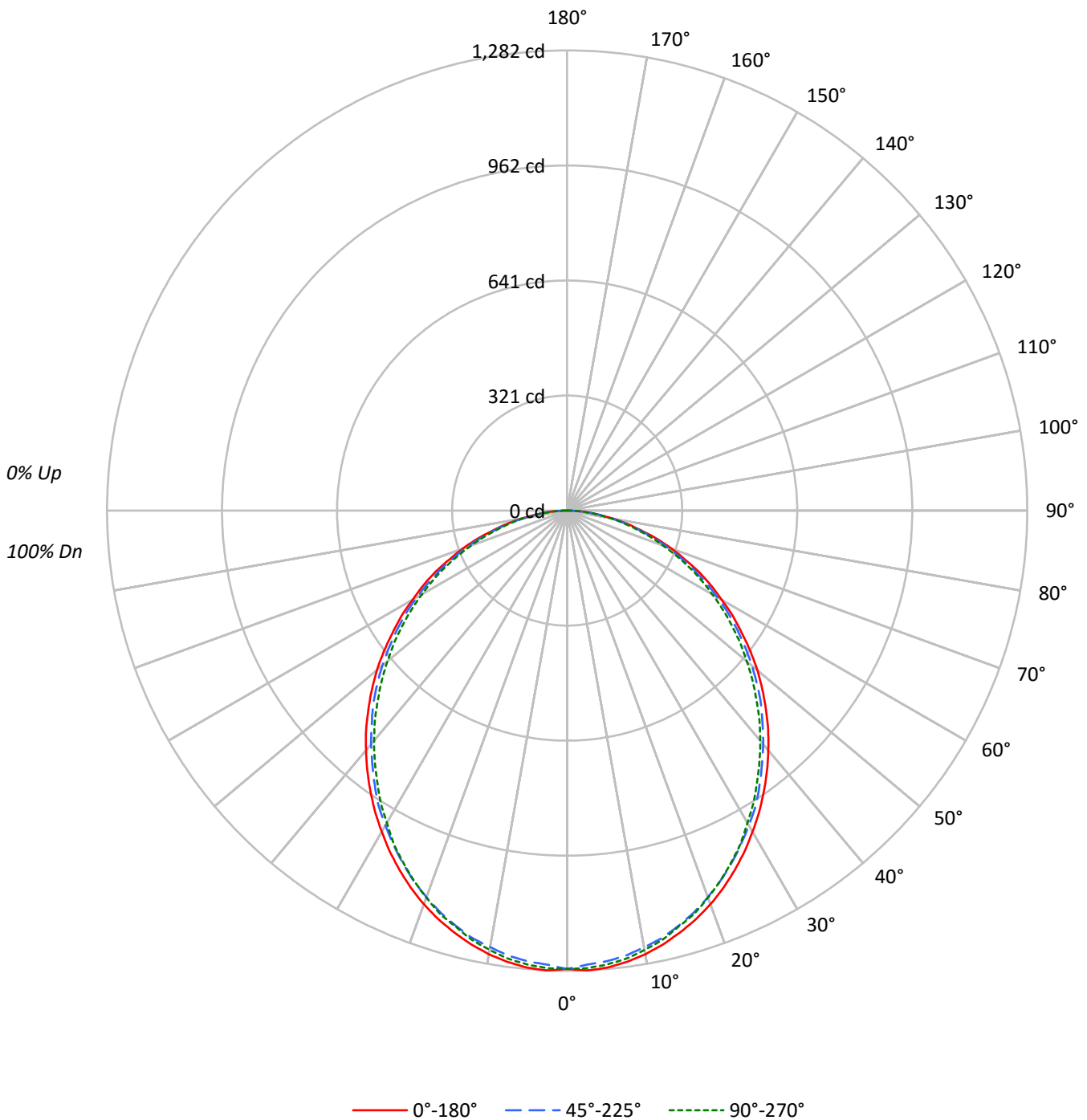
Lumens per Lamp: N/A
Luminaire Lumens: 3323.4 lumens
Efficiency: N/A
Efficacy: 95.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.18 / 1.3
Luminous Opening: Rectangular (W 0.25' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 34.8
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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	104	100	96	106	102	98	95	98	94	92	94	91	89	90	88	86	84
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	72	70
3	91	80	72	66	88	79	71	65	76	69	64	73	67	63	70	66	62	59
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	58	53	51
5	76	64	55	48	74	63	54	48	60	53	47	58	52	47	57	51	46	44
6	71	57	49	42	69	56	48	42	55	47	42	53	46	41	51	46	41	39
7	66	52	43	37	64	51	43	37	50	42	37	48	42	37	47	41	36	34
8	61	48	39	33	60	47	39	33	46	38	33	44	38	33	43	37	33	31
9	57	44	36	30	56	43	35	30	42	35	30	41	34	30	40	34	30	28
10	54	40	33	27	52	40	32	27	39	32	27	38	32	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13746	13746	13746
5°	13810	13620	13715
10°	13717	13501	13585
15°	13557	13349	13373
20°	13370	13131	13143
25°	13119	12871	12845
30°	12842	12582	12488
35°	12552	12278	12119
40°	12250	11941	11757
45°	11918	11633	11348
50°	11583	11253	10940
55°	11147	10858	10530
60°	10708	10400	10069
65°	10320	9900	9592
70°	9744	9331	8916
75°	8904	8584	8218
80°	8034	7693	7624
85°	7052	6780	6509



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	120.4	3.6
10°-20°	339.9	10.2
20°-30°	502.0	15.1
30°-40°	586.3	17.6
40°-50°	589.4	17.7
50°-60°	517.8	15.6
60°-70°	385.6	11.6
70°-80°	219.5	6.6
80°-90°	62.4	1.9
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°	962.3	29.0
0°-40°	1548.7	46.6
0°-60°	2655.9	79.9
0°-90°	3323.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3323.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1277	1277	1277	1277	1277	
5°	1278	1273	1260	1272	1269	121
15°	1217	1212	1198	1207	1200	343
25°	1105	1098	1084	1085	1082	509
35°	955	949	934	928	922	598
45°	783	778	764	751	746	604
55°	594	593	579	567	561	532
65°	405	400	389	380	377	400
75°	214	210	206	201	198	229
85°	57	55	55	53	53	65
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1277.0	1277.0	1277.0	1277.0	1277.0
2.5°	1282.4	1278.1	1266.0	1277.0	1275.9
5°	1278.1	1272.6	1260.5	1271.5	1269.3
7.5°	1268.2	1262.7	1250.6	1260.5	1259.4
10°	1255.0	1249.5	1235.2	1245.1	1242.9
12.5°	1237.4	1233.0	1219.9	1226.5	1225.4
15°	1216.6	1212.2	1197.9	1206.7	1200.1
17.5°	1193.5	1188.0	1173.7	1180.3	1178.1
20°	1167.2	1160.6	1146.3	1150.7	1147.4
22.5°	1137.5	1130.9	1116.7	1119.9	1115.6
25°	1104.6	1098.0	1083.7	1084.8	1081.5
27.5°	1070.5	1063.9	1048.6	1049.7	1046.4
30°	1033.2	1027.7	1012.3	1012.3	1004.7
32.5°	995.9	988.2	977.2	969.5	966.2
35°	955.2	948.7	934.4	927.8	922.3
37.5°	914.6	905.8	891.6	883.9	880.6
40°	871.8	865.2	849.8	841.1	836.7
42.5°	829.0	821.3	805.9	797.1	792.7
45°	782.9	778.5	764.2	751.0	745.5
47.5°	737.8	731.3	718.1	704.9	700.5
50°	691.7	686.2	672.0	659.9	653.3
52.5°	643.4	640.1	624.8	614.9	608.3
55°	594.0	592.9	578.6	566.6	561.1
57.5°	547.9	543.5	532.5	521.5	515.0
60°	497.4	496.3	483.1	473.2	467.7
62.5°	452.4	449.1	435.9	426.0	422.7
65°	405.2	399.7	388.7	379.9	376.6
67.5°	354.6	350.3	341.5	333.8	329.4
70°	309.6	303.0	296.5	288.8	283.3
72.5°	262.4	258.0	250.3	243.8	241.6
75°	214.1	209.7	206.4	200.9	197.6
77.5°	171.3	169.1	164.7	160.3	160.3
80°	129.6	126.3	124.1	123.0	123.0
82.5°	88.9	88.9	88.9	86.7	85.6
85°	57.1	54.9	54.9	52.7	52.7
87.5°	28.5	25.3	24.2	23.1	23.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)