

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: P242788

Luminaire Tested: **S125DR-S1090D930-X4F0-XX-UDD-F-W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P242788
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-12)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S125DR-S1090D930-X4F0-XX-UDD-F-W
Description: DEFINE 5 DIRECT RECESSED WITH SATIN FLUSH DIFFUSER
STANDARD LIGHT ENGINE
Light Source: (92) 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3420.5 lumens
Efficiency: N/A
Efficacy: 98.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3
Luminous Opening: Rectangular (W 0.39' x L: 3.88' x H: 0')
CIE Type: Direct

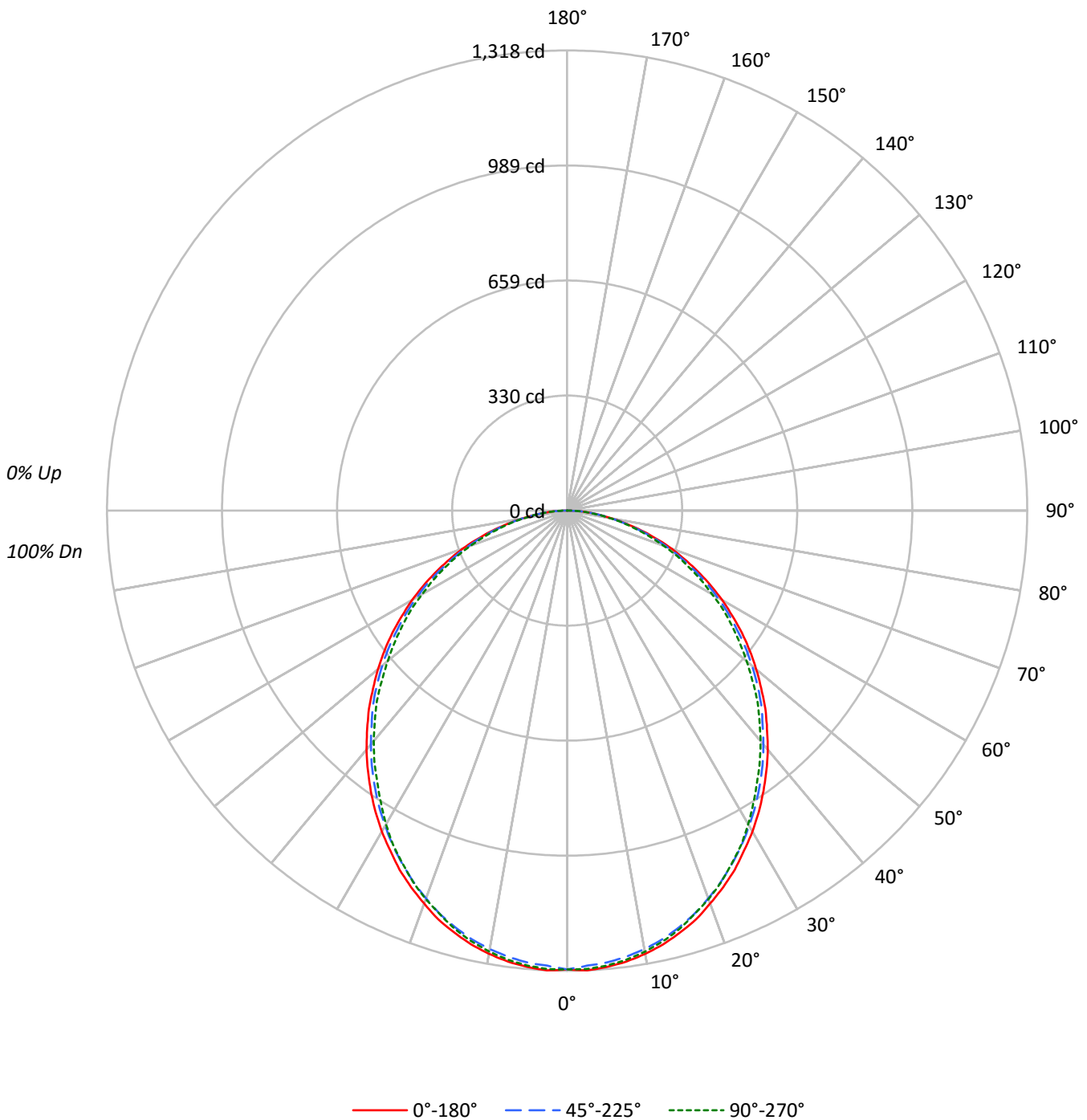
Input Watts (W): 34.8
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	9340	9340	9340
5°	9361	9272	9332
10°	9304	9207	9259
15°	9203	9096	9134
20°	9059	8941	8957
25°	8904	8756	8749
30°	8712	8558	8515
35°	8506	8344	8227
40°	8295	8113	7997
45°	8068	7900	7744
50°	7817	7645	7415
55°	7575	7357	7150
60°	7286	7065	6813
65°	6942	6714	6486
70°	6612	6309	6093
75°	6025	5824	5624
80°	5362	5276	5149
85°	4665	4746	4493



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.0	3.6
10°-20°	350.3	10.2
20°-30°	517.1	15.1
30°-40°	603.3	17.6
40°-50°	606.0	17.7
50°-60°	531.9	15.6
60°-70°	396.2	11.6
70°-80°	226.3	6.6
80°-90°	65.3	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°	991.4	29.0
0°-40°	1594.8	46.6
0°-60°	2732.7	79.9
0°-90°	3420.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3420.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1314	1314	1314	1314	1314	
5°	1312	1310	1300	1309	1308	125
15°	1251	1248	1236	1241	1241	353
25°	1135	1130	1117	1119	1116	522
35°	980	976	962	956	948	613
45°	803	798	786	774	770	618
55°	611	608	594	584	577	546
65°	413	411	399	390	386	409
75°	219	217	212	209	205	234
85°	57	58	58	57	55	66
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1314.2	1314.2	1314.2	1314.2	1314.2
2.5°	1318.3	1315.2	1304.8	1315.2	1314.2
5°	1312.1	1310.0	1299.6	1309.0	1308.0
7.5°	1302.8	1300.7	1289.2	1298.6	1297.6
10°	1289.2	1287.2	1275.7	1284.0	1283.0
12.5°	1272.6	1268.4	1258.0	1264.3	1264.3
15°	1250.8	1247.6	1236.2	1241.4	1241.4
17.5°	1227.9	1222.7	1211.3	1217.5	1212.3
20°	1197.7	1195.7	1182.1	1189.4	1184.2
22.5°	1167.6	1163.4	1151.0	1155.1	1152.0
25°	1135.4	1130.2	1116.6	1118.7	1115.6
27.5°	1097.9	1094.8	1081.3	1082.3	1079.2
30°	1061.5	1058.4	1042.8	1040.7	1037.6
32.5°	1022.0	1016.8	1003.3	999.2	992.9
35°	980.4	976.3	961.7	956.5	948.2
37.5°	937.8	932.6	919.1	911.8	906.6
40°	894.1	888.9	874.4	865.0	861.9
42.5°	847.4	843.2	828.6	820.3	815.1
45°	802.7	798.5	786.0	773.5	770.4
47.5°	753.8	754.8	739.2	726.8	719.5
50°	707.0	703.9	691.4	677.9	670.6
52.5°	659.2	657.1	643.6	632.1	623.8
55°	611.3	608.2	593.7	584.3	577.0
57.5°	560.4	559.4	546.9	534.4	531.3
60°	512.6	508.4	497.0	486.6	479.3
62.5°	462.7	459.6	450.2	438.8	433.6
65°	412.8	410.7	399.2	389.9	385.7
67.5°	363.9	359.7	351.4	343.1	341.0
70°	318.2	313.0	303.6	297.4	293.2
72.5°	268.2	265.1	259.9	252.6	248.5
75°	219.4	217.3	212.1	209.0	204.8
77.5°	173.6	172.6	169.5	167.4	164.3
80°	131.0	131.0	128.9	127.9	125.8
82.5°	93.6	91.5	91.5	89.4	89.4
85°	57.2	58.2	58.2	57.2	55.1
87.5°	28.1	28.1	27.0	27.0	25.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)