

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: P242798

Luminaire Tested: **S125DR-S1090D940-X4F0-XX-UDD-F-W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P242798
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-S1090D940-X4F0-XX-UDD-F-W
Description: DEFINE 5 DIRECT RECESSED WITH SATIN FLUSH DIFFUSER
STANDARD LIGHT ENGINE
Light Source: (92) 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3741.1 lumens
Efficiency: N/A
Efficacy: 107.5 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

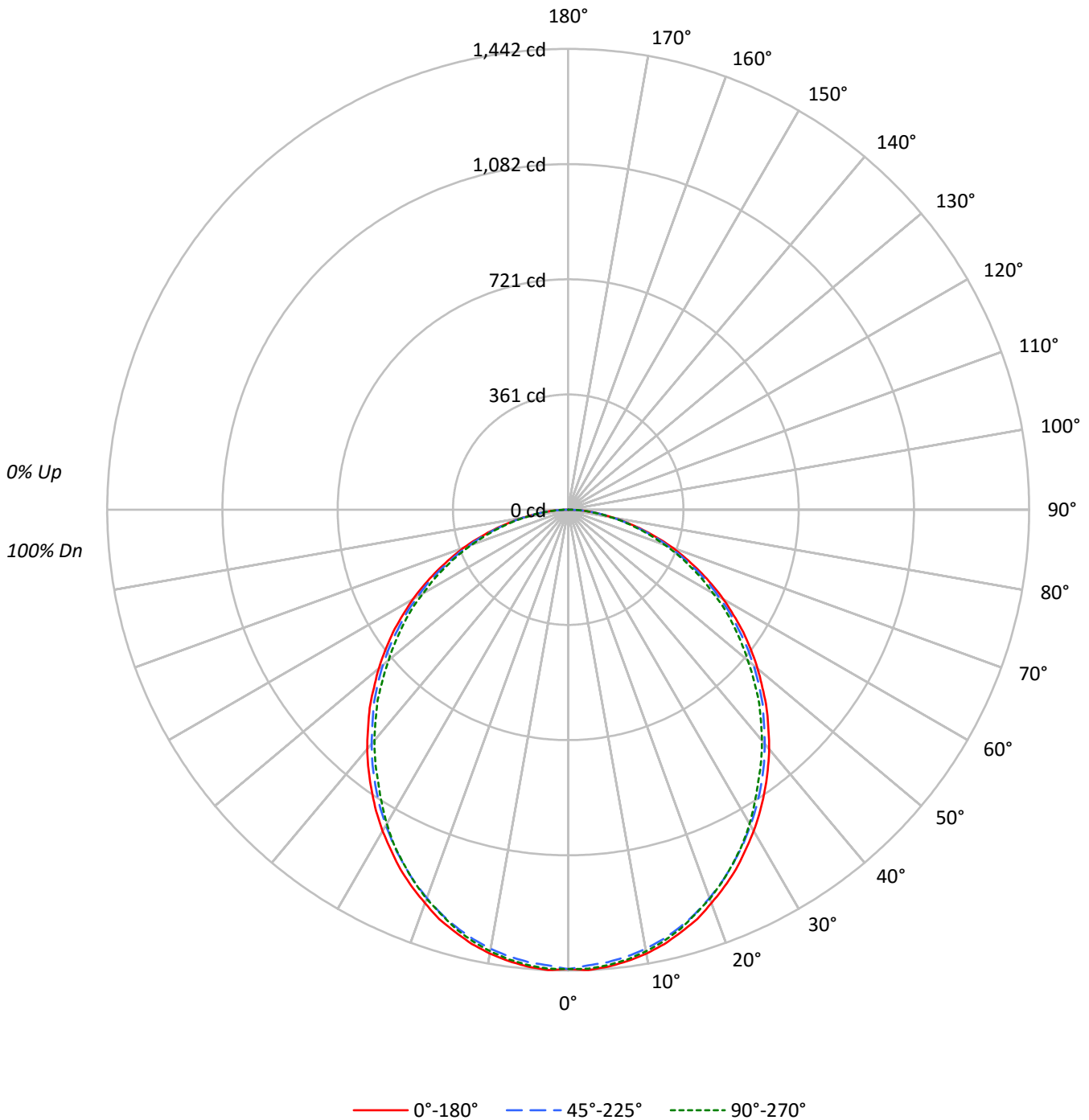
Input Watts (W): 34.8
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	10216	10216	10216
5°	10239	10141	10206
10°	10177	10070	10127
15°	10066	9949	9991
20°	9908	9779	9796
25°	9738	9578	9569
30°	9528	9361	9314
35°	9304	9127	8998
40°	9073	8873	8746
45°	8824	8641	8469
50°	8550	8361	8110
55°	8285	8046	7820
60°	7969	7727	7451
65°	7591	7344	7095
70°	7232	6899	6664
75°	6588	6371	6151
80°	5865	5771	5632
85°	5097	5195	4917



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.6	3.6
10°-20°	383.1	10.2
20°-30°	565.6	15.1
30°-40°	659.9	17.6
40°-50°	662.8	17.7
50°-60°	581.8	15.6
60°-70°	433.4	11.6
70°-80°	247.5	6.6
80°-90°	71.5	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°	1084.4	29.0
0°-40°	1744.3	46.6
0°-60°	2988.8	79.9
0°-90°	3741.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3741.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1437	1437	1437	1437	1437	
5°	1435	1433	1421	1432	1430	136
15°	1368	1365	1352	1358	1358	386
25°	1242	1236	1221	1224	1220	571
35°	1072	1068	1052	1046	1037	671
45°	878	873	860	846	843	676
55°	669	665	649	639	631	597
65°	451	449	437	426	422	448
75°	240	238	232	229	224	255
85°	62	64	64	62	60	73
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1437.4	1437.4	1437.4	1437.4	1437.4
2.5°	1441.9	1438.5	1427.1	1438.5	1437.4
5°	1435.1	1432.8	1421.4	1431.7	1430.5
7.5°	1424.8	1422.6	1410.1	1420.3	1419.2
10°	1410.1	1407.8	1395.3	1404.4	1403.2
12.5°	1391.9	1387.3	1376.0	1382.8	1382.8
15°	1368.0	1364.6	1352.1	1357.8	1357.8
17.5°	1343.0	1337.3	1324.8	1331.6	1325.9
20°	1310.0	1307.7	1292.9	1300.9	1295.2
22.5°	1277.0	1272.5	1258.8	1263.4	1260.0
25°	1241.8	1236.1	1221.3	1223.6	1220.2
27.5°	1200.8	1197.4	1182.6	1183.8	1180.4
30°	1161.0	1157.6	1140.6	1138.3	1134.9
32.5°	1117.8	1112.1	1097.4	1092.8	1086.0
35°	1072.3	1067.8	1051.9	1046.2	1037.1
37.5°	1025.7	1020.0	1005.2	997.3	991.6
40°	977.9	972.3	956.3	946.1	942.7
42.5°	926.8	922.2	906.3	897.2	891.5
45°	877.9	873.3	859.7	846.0	842.6
47.5°	824.4	825.6	808.5	794.9	786.9
50°	773.3	769.9	756.2	741.4	733.5
52.5°	721.0	718.7	703.9	691.4	682.3
55°	668.6	665.2	649.3	639.1	631.1
57.5°	612.9	611.8	598.1	584.5	581.1
60°	560.6	556.1	543.6	532.2	524.2
62.5°	506.0	502.6	492.4	479.9	474.2
65°	451.4	449.2	436.7	426.4	421.9
67.5°	398.0	393.5	384.4	375.3	373.0
70°	348.0	342.3	332.0	325.2	320.7
72.5°	293.4	290.0	284.3	276.3	271.8
75°	239.9	237.7	232.0	228.6	224.0
77.5°	189.9	188.8	185.4	183.1	179.7
80°	143.3	143.3	141.0	139.9	137.6
82.5°	102.3	100.1	100.1	97.8	97.8
85°	62.5	63.7	63.7	62.5	60.3
87.5°	30.7	30.7	29.6	29.6	27.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)