

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: P242877

Luminaire Tested: **S125RDR-S1090D830-X4F0-XX-UDD-F-W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P242877
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-27)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S125RDR-S1090D830-X4F0-XX-UDD-F-W
Description: DEFINE 5 REGRESSED DIRECT RECESSED WITH SATIN FLUSH DIFFUSER
STANDARD LIGHT ENGINE
Light Source: (92) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3759.9 lumens
Efficiency: N/A
Efficacy: 108.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular (W 0.39' x L: 3.88' x H: 0')
CIE Type: Direct

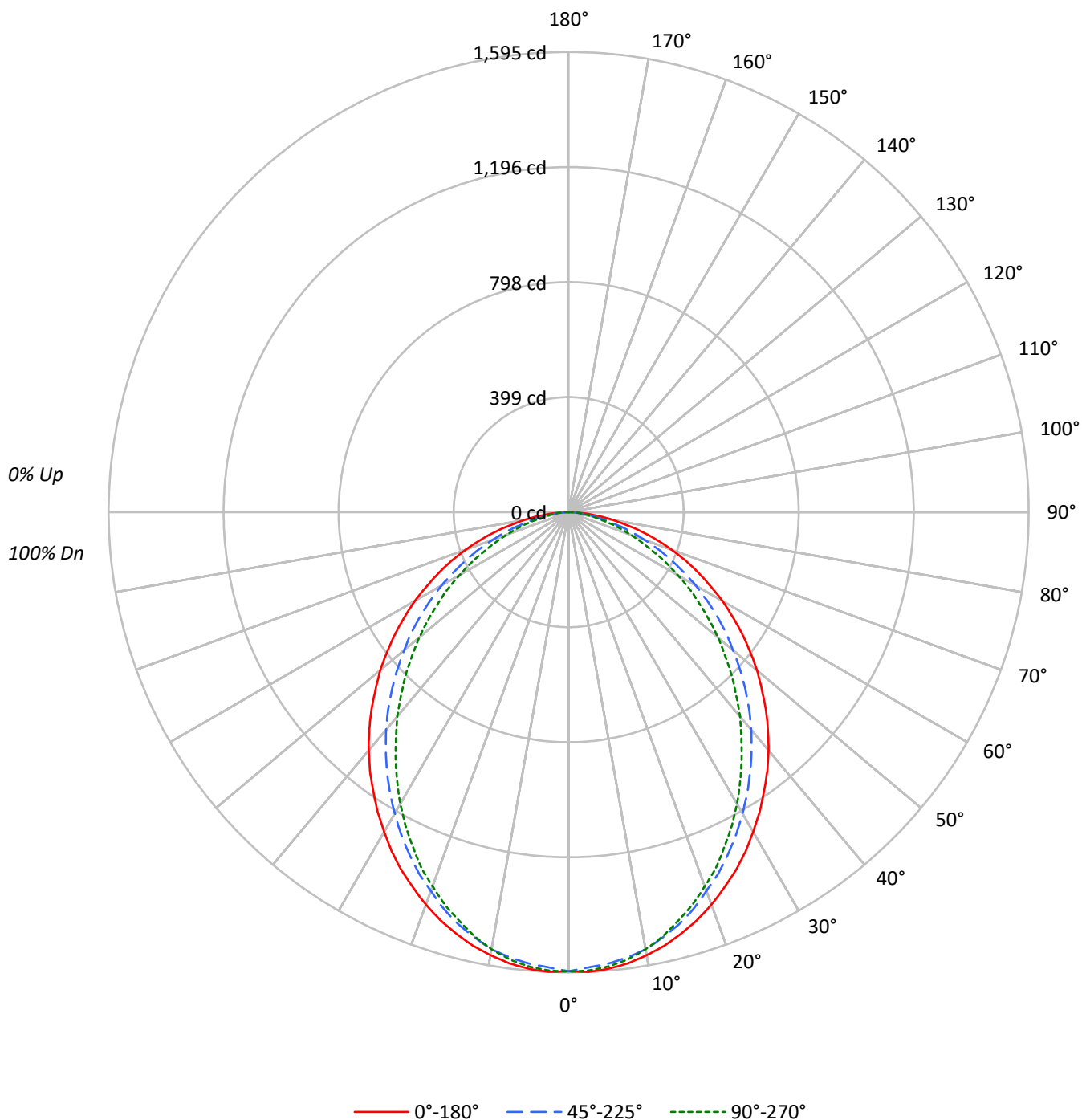
Input Watts (W): 34.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					0
RW	70	50	30	10	70	50	30	10		50	30	10		50	30	10		50	30	10
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111		106	106	106		102	102	102
1	109	105	101	97	107	103	99	96		99	96	93		95	92	90		91	89	87
2	100	92	86	80	98	90	84	79		87	82	78		84	79	76		81	77	74
3	92	82	74	68	89	80	73	67		77	71	66		74	69	65		72	67	64
4	84	73	64	58	82	71	64	57		69	62	57		67	61	56		64	59	55
5	78	65	57	50	76	64	56	50		62	55	49		60	54	49		58	53	48
6	72	59	50	44	70	58	50	44		56	49	44		55	48	43		53	47	43
7	67	54	45	39	65	53	45	39		51	44	39		50	43	39		49	43	38
8	62	49	41	35	61	48	41	35		47	40	35		46	39	35		45	39	34
9	58	45	37	32	57	45	37	32		44	37	32		42	36	31		41	36	31
10	55	42	34	29	54	41	34	29		40	34	29		39	33	29		39	33	29

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11311	11311	11311
5°	11337	11208	11277
10°	11251	11103	11103
15°	11117	10878	10790
20°	10946	10564	10437
25°	10745	10255	10029
30°	10496	9894	9578
35°	10241	9522	9073
40°	10004	9133	8576
45°	9714	8698	8034
50°	9423	8226	7469
55°	9085	7774	6866
60°	8748	7227	6219
65°	8348	6589	5477
70°	7892	5796	4721
75°	7261	4885	3927
80°	6397	3839	3295
85°	5390	3140	2944

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	149.8	4.0
10°-20°	418.6	11.1
20°-30°	606.9	16.1
30°-40°	691.5	18.4
40°-50°	673.9	17.9
50°-60°	567.2	15.1
60°-70°	397.5	10.6
70°-80°	203.8	5.4
80°-90°	50.8	1.4
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°	1175.3	31.3
0°-40°	1866.7	49.6
0°-60°	3107.8	82.7
0°-90°	3759.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3759.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1591	1591	1591	1591	1591	
5°	1589	1584	1571	1583	1581	151
15°	1511	1504	1478	1477	1466	426
25°	1370	1352	1308	1292	1279	631
35°	1180	1152	1097	1062	1046	739
45°	966	932	865	817	799	745
55°	733	695	627	573	554	656
65°	496	456	392	344	326	492
75°	264	228	178	151	143	279
85°	66	44	38	37	36	76
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1591.4	1591.4	1591.4	1591.4	1591.4
2.5°	1595.0	1591.4	1579.4	1591.4	1590.2
5°	1589.0	1584.2	1571.0	1583.0	1580.6
7.5°	1577.0	1572.2	1556.6	1566.2	1563.8
10°	1559.0	1555.4	1538.5	1542.1	1538.5
12.5°	1538.5	1533.7	1509.7	1512.1	1506.1
15°	1510.9	1503.7	1478.4	1477.2	1466.4
17.5°	1482.0	1471.2	1441.2	1435.2	1426.7
20°	1447.2	1435.2	1396.7	1390.7	1379.9
22.5°	1408.7	1396.7	1355.8	1342.6	1334.2
25°	1370.2	1352.2	1307.7	1292.1	1278.9
27.5°	1327.0	1305.3	1258.5	1238.0	1224.8
30°	1278.9	1256.1	1205.6	1177.9	1167.1
32.5°	1232.0	1204.4	1152.7	1121.4	1107.0
35°	1180.3	1151.5	1097.4	1062.5	1045.7
37.5°	1131.1	1096.2	1040.9	1000.0	983.2
40°	1078.2	1042.1	984.4	938.7	924.3
42.5°	1022.9	985.6	925.5	882.2	859.4
45°	966.4	931.5	865.4	817.3	799.3
47.5°	907.5	871.4	805.3	756.0	735.6
50°	852.2	812.5	744.0	693.5	675.5
52.5°	792.1	751.2	687.5	632.2	614.2
55°	733.2	694.7	627.4	573.3	554.1
57.5°	673.1	632.2	567.3	514.4	497.6
60°	615.4	573.3	508.4	455.5	437.5
62.5°	554.1	514.4	448.3	400.3	382.2
65°	496.4	455.5	391.8	343.8	325.7
67.5°	438.7	397.9	336.6	290.9	276.5
70°	379.8	339.0	278.9	241.6	227.2
72.5°	322.1	282.5	227.2	193.5	185.1
75°	264.4	228.4	177.9	151.4	143.0
77.5°	205.5	176.7	134.6	114.2	107.0
80°	156.3	127.4	93.8	82.9	80.5
82.5°	108.2	82.9	62.5	58.9	57.7
85°	66.1	44.5	38.5	37.3	36.1
87.5°	27.6	19.2	18.0	18.0	16.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)