

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: P334423

Luminaire Tested: **S125RDS-S1090D927-4F0-1E-UDD-F**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P334423  
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: S125RDS-S1090D927-4F0-1E-UDD-F  
Description: DEFINE 5 REGRESSED DIRECT LED LUMINAIRE, FLUSH SATIN WHITE DIFFUSER  
PENDANT/SURFACE/WALL MOUNT, 1090 LUMENS PER FOOT  
Light Source: 2700K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3160.1 lumens  
Efficiency: N/A  
Efficacy: 90.8 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25  
Luminous Opening: Rectangular (W 0.42' x L: 4' x H: 0')  
CIE Type: Direct

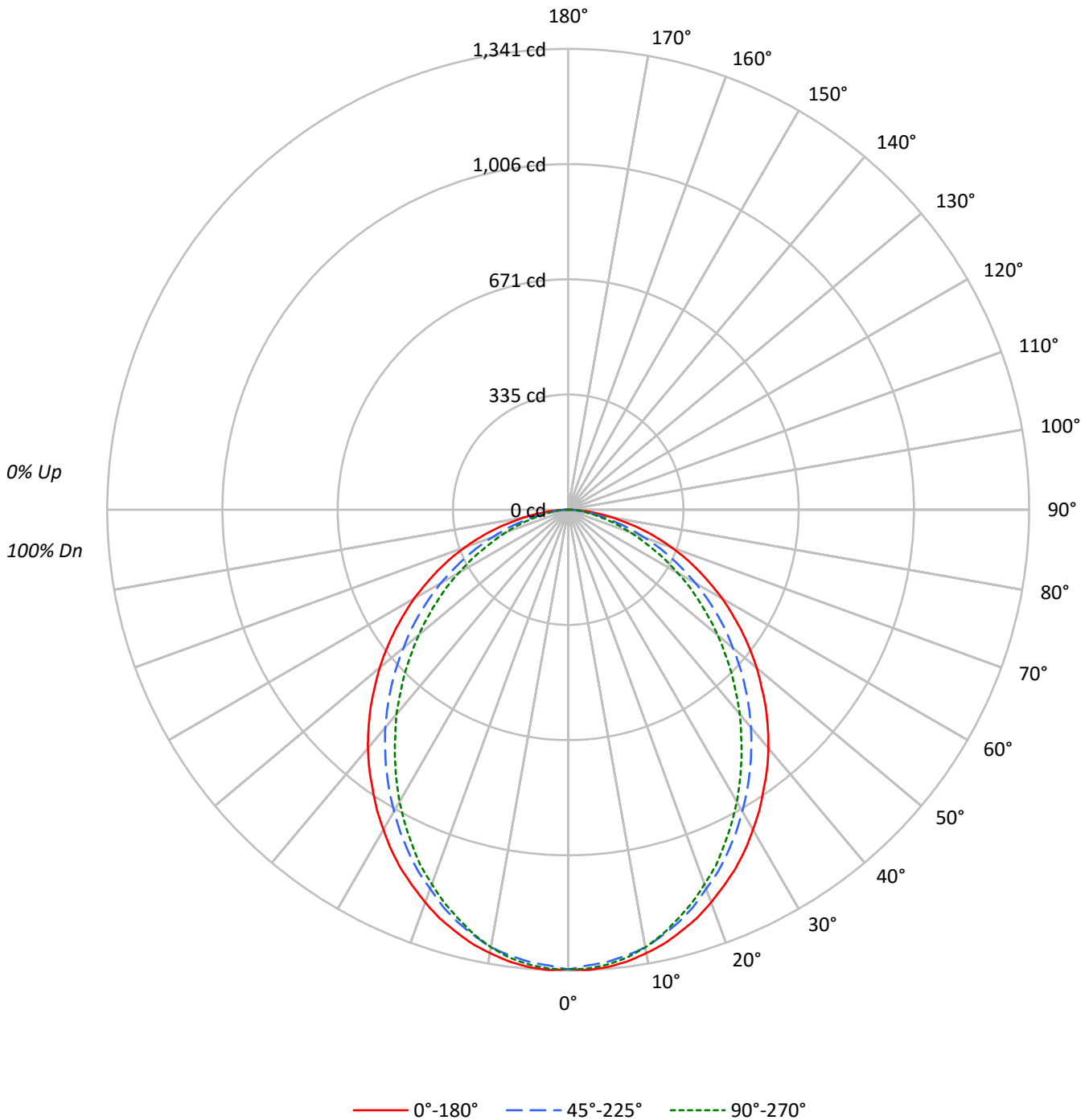
Input Watts (W): 34.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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				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	105	101	97	107	103	99	96	99	96	93	95	92	90	91	89	87	85
2	100	92	86	80	98	90	84	79	87	82	78	84	79	76	81	77	74	72
3	92	82	74	68	89	80	73	67	77	71	66	74	69	65	72	67	64	61
4	84	73	64	58	82	71	64	57	69	62	57	67	61	56	64	59	55	53
5	78	65	57	50	76	64	56	50	62	55	49	60	54	49	58	53	48	46
6	72	59	50	44	70	58	50	44	56	49	44	55	48	43	53	47	43	41
7	67	54	45	39	65	53	45	39	51	44	39	50	43	39	49	43	38	36
8	62	49	41	35	61	48	41	35	47	40	35	46	39	35	45	39	34	33
9	58	45	37	32	57	45	37	32	44	37	32	42	36	31	41	36	31	29
10	55	42	34	29	54	41	34	29	40	34	29	39	33	29	39	33	29	27

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	8638	8638	8638
5°	8658	8560	8612
10°	8593	8480	8480
15°	8491	8308	8241
20°	8359	8068	7970
25°	8207	7832	7660
30°	8016	7557	7315
35°	7821	7272	6929
40°	7640	6976	6550
45°	7418	6644	6136
50°	7197	6283	5704
55°	6938	5937	5244
60°	6681	5519	4749
65°	6376	5032	4184
70°	6027	4426	3605
75°	5545	3730	2999
80°	4883	2931	2518
85°	4120	2393	2245



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	125.9	4.0
10°-20°	351.8	11.1
20°-30°	510.1	16.1
30°-40°	581.1	18.4
40°-50°	566.5	17.9
50°-60°	476.7	15.1
60°-70°	334.1	10.6
70°-80°	171.2	5.4
80°-90°	42.7	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°	987.8	31.3
0°-40°	1568.9	49.6
0°-60°	2612.1	82.7
0°-90°	3160.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3160.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1338	1338	1338	1338	1338	
5°	1336	1332	1320	1330	1328	127
15°	1270	1264	1243	1242	1232	358
25°	1152	1136	1099	1086	1075	530
35°	992	968	922	893	879	621
45°	812	783	727	687	672	626
55°	616	584	527	482	466	551
65°	417	383	329	289	274	413
75°	222	192	150	127	120	235
85°	56	37	32	31	30	64
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1337.5	1337.5	1337.5	1337.5	1337.5
2.5°	1340.6	1337.5	1327.4	1337.5	1336.5
5°	1335.5	1331.5	1320.4	1330.5	1328.4
7.5°	1325.4	1321.4	1308.2	1316.3	1314.3
10°	1310.3	1307.2	1293.1	1296.1	1293.1
12.5°	1293.1	1289.0	1268.8	1270.9	1265.8
15°	1269.9	1263.8	1242.6	1241.6	1232.5
17.5°	1245.6	1236.5	1211.3	1206.2	1199.1
20°	1216.3	1206.2	1173.9	1168.8	1159.7
22.5°	1184.0	1173.9	1139.5	1128.4	1121.4
25°	1151.7	1136.5	1099.1	1086.0	1074.9
27.5°	1115.3	1097.1	1057.7	1040.5	1029.4
30°	1074.9	1055.7	1013.3	990.0	980.9
32.5°	1035.5	1012.2	968.8	942.5	930.4
35°	992.0	967.8	922.3	893.0	878.9
37.5°	950.6	921.3	874.9	840.5	826.4
40°	906.2	875.9	827.4	789.0	776.9
42.5°	859.7	828.4	777.9	741.5	722.3
45°	812.2	782.9	727.4	687.0	671.8
47.5°	762.7	732.4	676.9	635.4	618.3
50°	716.3	682.9	625.3	582.9	567.7
52.5°	665.7	631.4	577.8	531.4	516.2
55°	616.2	583.9	527.3	481.9	465.7
57.5°	565.7	531.4	476.8	432.4	418.2
60°	517.2	481.9	427.3	382.9	367.7
62.5°	465.7	432.4	376.8	336.4	321.3
65°	417.2	382.9	329.3	288.9	273.8
67.5°	368.7	334.4	282.9	244.5	232.4
70°	319.2	284.9	234.4	203.1	190.9
72.5°	270.7	237.4	190.9	162.6	155.6
75°	222.2	191.9	149.5	127.3	120.2
77.5°	172.7	148.5	113.1	96.0	89.9
80°	131.3	107.1	78.8	69.7	67.7
82.5°	90.9	69.7	52.5	49.5	48.5
85°	55.6	37.4	32.3	31.3	30.3
87.5°	23.2	16.2	15.2	15.2	14.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)