

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: NEO-RAY

Report Number: P1027397

Luminaire Tested: S125DIP-B1090D375UB27-4F0-XX-W2A-D

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027397
REPORT IS A COMBINATION OF REPORTS P1001342 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B1090D375UB27-4F0-XX-W2A-D
Description: Define 5 Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

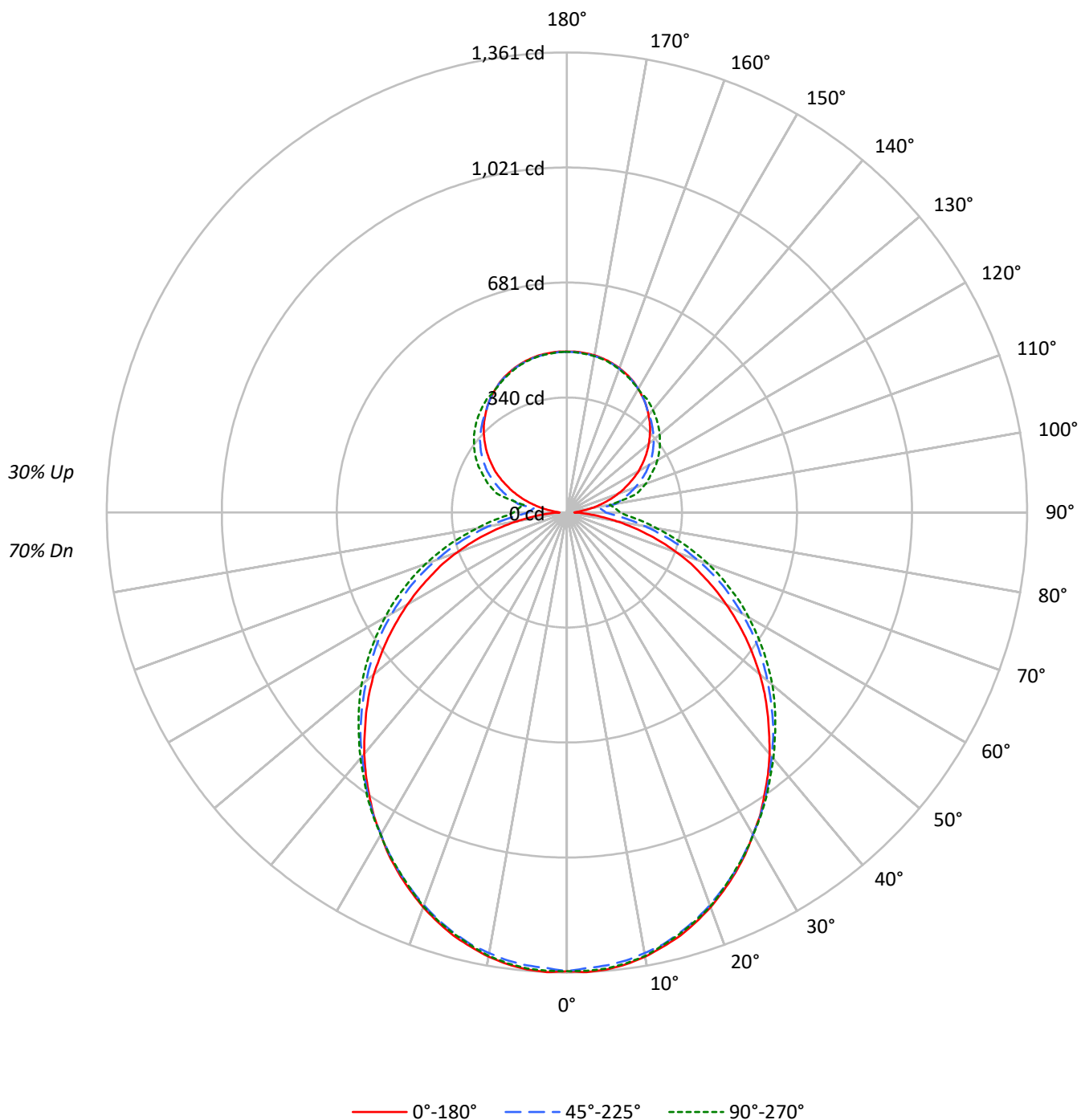
Lumens per Lamp: N/A
Luminaire Lumens: 5666.0 lumens
Efficiency: N/A
Efficacy: 101.0 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 56.1
Input Voltage (V):
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: 24 FT

TEST NUMBER: P1027397

CATALOG NUMBER: S125DIP-B1090D375UB27-4F0-XX-W2A-D

Luminous Intensity Polar Plot



TEST NUMBER: P1027397

CATALOG NUMBER: S125DIP-B1090D375UB27-4F0-XX-W2A-D

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20
RC	80				70				50				30				10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	112	112	112	112	106	106	106	106	94	94	94	84	84	84	74	74	74
1	101	96	92	88	95	91	87	84	81	78	75	72	70	68	64	62	61
2	92	84	77	71	86	79	73	68	71	66	62	63	59	56	56	53	50
3	83	73	65	59	78	69	62	56	62	56	51	55	51	47	49	45	42
4	76	65	56	50	72	61	54	48	55	49	44	49	44	40	44	40	36
5	70	58	49	42	66	55	47	41	49	43	38	44	39	34	39	35	31
6	65	52	43	37	61	49	41	35	44	38	33	40	34	30	36	31	28
7	60	47	38	32	56	44	37	31	40	34	29	36	31	27	32	28	24
8	55	42	34	29	52	40	33	28	37	30	26	33	28	24	30	25	22
9	52	39	31	26	49	37	30	25	34	27	23	31	25	21	28	23	20
10	48	36	28	23	46	34	27	22	31	25	21	28	23	19	26	21	18

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8695	8695	8695
5°	8709	8513	8533
10°	8644	8339	8315
15°	8539	8137	8047
20°	8397	7893	7780
25°	8228	7634	7458
30°	8024	7351	7165
35°	7834	7090	6895
40°	7641	6815	6623
45°	7421	6576	6378
50°	7212	6317	6157
55°	6960	6071	5900
60°	6684	5790	5637
65°	6394	5493	5341
70°	6063	5096	5033
75°	5543	4705	4656
80°	4857	4228	4240
85°	4185	3847	4022

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 7421 cd/sqm

TEST NUMBER: P1027397

CATALOG NUMBER: S125DIP-B1090D375UB27-4F0-XX-W2A-D

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.4	2.3
10°-20°	364.6	6.4
20°-30°	542.1	9.6
30°-40°	642.0	11.3
40°-50°	663.7	11.7
50°-60°	611.4	10.8
60°-70°	494.3	8.7
70°-80°	330.7	5.8
80°-90°	171.7	3.0
90°-100°	112.4	2.0
100°-110°	178.4	3.1
110°-120°	240.9	4.3
120°-130°	275.1	4.9
130°-140°	278.7	4.9
140°-150°	252.8	4.5
150°-160°	202.6	3.6
160°-170°	131.0	2.3
170°-180°	45.2	0.8
0°-30°	1035.1	18.3
0°-40°	1677.1	29.6
0°-60°	2952.3	52.1
0°-90°	3948.9	69.7
90°-120°	531.6	9.4
90°-150°	1338.2	23.6
90°-180°	1717.0	30.3
0°-180°	5666.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1357	1357	1357	1357	1357	
5°	1357	1354	1345	1356	1354	129
15°	1296	1297	1288	1296	1291	365
25°	1178	1182	1174	1179	1172	542
35°	1019	1028	1024	1028	1028	638
45°	840	854	861	870	872	648
55°	645	667	688	702	708	577
65°	444	475	507	527	532	441
75°	245	279	322	349	355	259
85°	73	117	164	193	204	76
90°	22	67	115	147	158	16
95°	37	71	103	134	143	38
105°	116	138	178	205	214	123
115°	203	214	249	271	277	201
125°	282	283	310	330	335	252
135°	348	349	357	374	378	268
145°	402	401	401	408	411	251
155°	441	439	439	440	438	203
165°	465	463	463	466	463	131
175°	476	474	474	477	474	45
180°	476	476	476	476	476	

TEST NUMBER: P1027397

CATALOG NUMBER: S125DIP-B1090D375UB27-4F0-XX-W2A-D

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1357.1	1357.1	1357.1	1357.1	1357.1
2.5°	1361.1	1358.4	1349.1	1358.4	1357.1
5°	1357.1	1354.4	1345.1	1355.8	1354.4
7.5°	1347.8	1346.4	1337.1	1346.4	1345.1
10°	1334.5	1334.5	1323.8	1333.1	1331.8
12.5°	1315.8	1317.2	1309.2	1315.8	1311.8
15°	1295.9	1297.2	1287.9	1295.9	1290.6
17.5°	1270.6	1273.3	1263.9	1270.6	1266.6
20°	1242.7	1245.3	1236.0	1240.0	1240.0
22.5°	1210.7	1216.1	1205.4	1210.7	1206.7
25°	1177.5	1181.5	1173.5	1178.8	1172.1
27.5°	1141.5	1146.9	1137.6	1141.5	1138.9
30°	1100.3	1108.3	1100.3	1103.0	1101.6
32.5°	1063.0	1069.7	1064.4	1067.0	1065.7
35°	1019.1	1028.5	1024.5	1028.5	1028.5
37.5°	976.6	984.5	983.2	988.5	987.2
40°	932.7	943.3	942.0	947.3	950.0
42.5°	884.8	899.4	903.4	910.0	910.0
45°	839.5	854.2	860.8	870.1	871.5
47.5°	793.0	806.3	816.9	830.2	832.9
50°	745.1	759.7	774.3	789.0	793.0
52.5°	694.5	713.1	731.8	747.7	750.4
55°	645.3	666.6	687.9	702.5	707.8
57.5°	594.7	620.0	643.9	659.9	663.9
60°	544.2	570.8	597.4	617.3	621.3
62.5°	494.9	521.5	550.8	573.4	578.8
65°	444.4	475.0	506.9	526.9	532.2
67.5°	397.8	427.1	459.0	483.0	489.6
70°	345.9	376.5	411.1	436.4	444.4
72.5°	295.4	327.3	365.9	393.8	399.1
75°	244.8	279.4	322.0	348.6	355.2
77.5°	195.6	235.5	275.4	304.7	310.0
80°	150.3	190.3	235.5	264.8	270.1
82.5°	109.1	151.7	198.2	226.2	236.8
85°	73.2	117.1	163.6	192.9	203.6
87.5°	46.6	89.1	134.4	165.0	174.3
90°	21.7	67.1	114.7	147.1	157.5
92.5°	25.3	60.7	109.4	140.4	150.2
95°	37.4	70.9	102.7	133.8	143.1
97.5°	53.7	87.7	98.1	126.8	136.5
100°	73.5	102.5	146.6	121.9	128.5
102.5°	93.7	120.4	162.3	189.6	168.0
105°	115.7	138.4	178.3	204.9	213.8
107.5°	138.3	157.0	196.3	223.2	229.7
110°	160.2	176.2	214.1	238.4	248.0

TEST NUMBER: P1027397

CATALOG NUMBER: S125DIP-B1090D375UB27-4F0-XX-W2A-D

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	182.1	195.2	231.4	254.0	262.6
115°	202.7	213.7	248.7	271.2	277.0
117.5°	224.3	230.9	265.6	286.1	294.7
120°	245.4	249.0	280.6	302.6	308.8
122.5°	262.7	265.9	295.4	316.0	321.9
125°	282.1	283.3	309.9	329.8	335.3
127.5°	299.5	300.0	322.2	341.4	346.6
130°	316.4	316.9	335.9	353.4	358.3
132.5°	332.1	334.2	346.4	365.0	368.6
135°	347.9	348.7	357.2	373.8	378.4
137.5°	362.7	363.5	368.2	384.1	387.6
140°	375.8	376.5	377.6	392.9	396.0
142.5°	388.9	387.9	388.6	400.6	403.8
145°	401.5	401.0	401.0	408.0	411.2
147.5°	411.5	411.5	411.9	414.9	415.1
150°	422.1	421.4	422.1	422.8	421.3
152.5°	432.3	430.6	431.3	432.0	429.5
155°	440.8	438.7	439.4	440.5	437.6
157.5°	447.5	446.4	446.4	447.5	444.7
160°	454.6	452.4	452.8	454.2	451.4
162.5°	460.2	458.1	458.4	460.6	457.4
165°	465.1	463.0	463.4	465.5	462.7
167.5°	469.0	466.9	467.3	469.7	466.5
170°	472.2	469.7	470.1	472.9	469.7
172.5°	474.3	471.8	472.5	475.0	471.8
175°	475.7	473.6	474.0	476.8	473.6
177.5°	476.8	474.7	475.0	477.5	474.7
180°	475.7	475.7	475.7	475.7	475.7

(END OF REPORT)