

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: P1027619

Luminaire Tested: S125DIP-B1270D375UB27-4F0-XX-W2A-D

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027619
REPORT IS A COMBINATION OF REPORTS P1001642 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B1270D375UB27-4F0-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

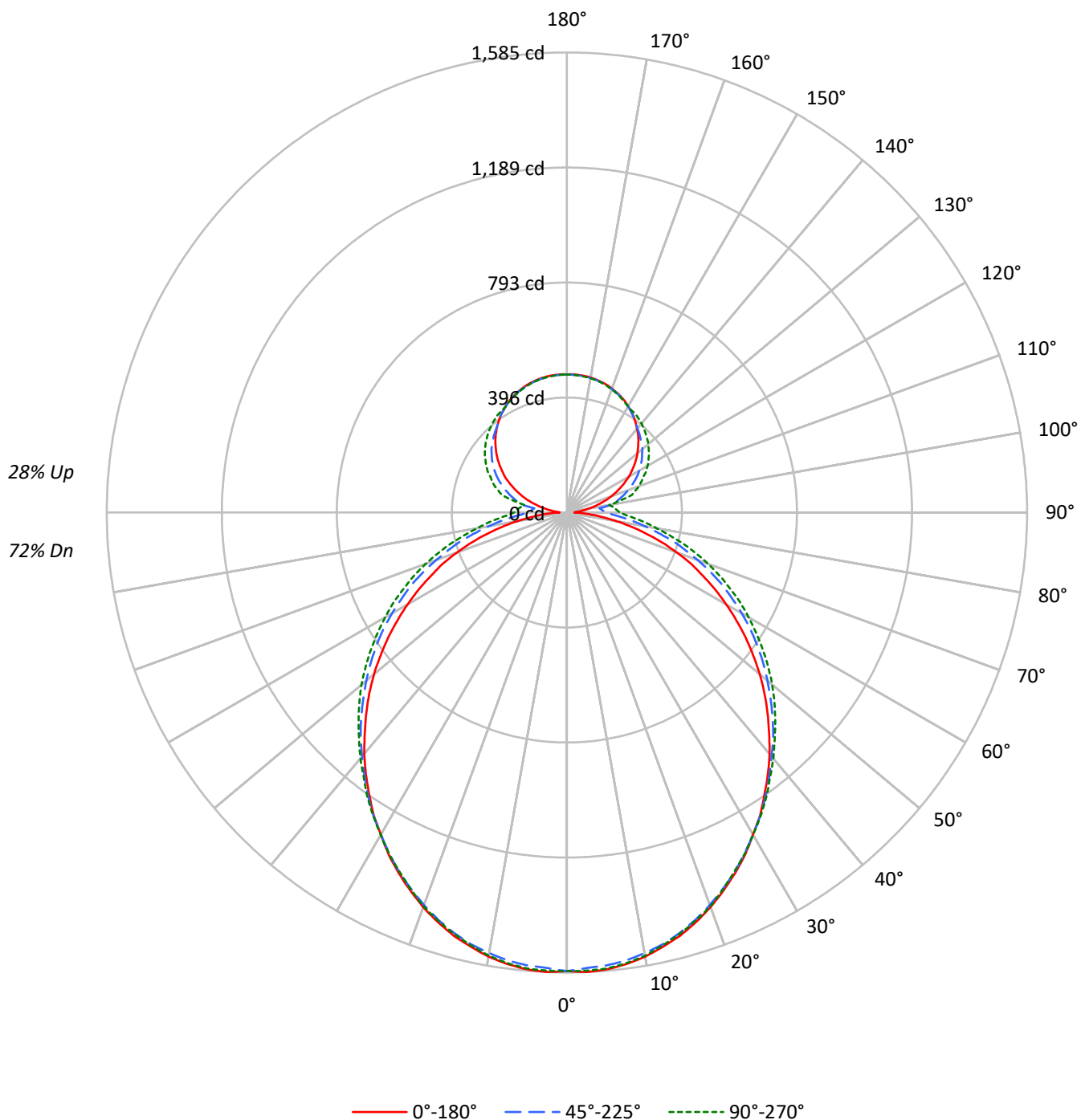
Lumens per Lamp: N/A
Luminaire Lumens: 6356.9 lumens
Efficiency: N/A
Efficacy: 90.0 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 70.6
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: P1027619

CATALOG NUMBER: S125DIP-B1270D375UB27-4F0-XX-W2A-D

Luminous Intensity Polar Plot



TEST NUMBER: P1027619

CATALOG NUMBER: S125DIP-B1270D375UB27-4F0-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	107	107	107	107	96	96	96	86	86	86	77	77	77
1	102	97	92	88	96	92	88	84	83	79	77	74	72	69	66	64	63
2	92	84	77	71	87	80	74	68	72	67	63	64	61	57	58	55	52
3	84	74	65	59	79	70	63	57	63	57	52	57	52	48	51	47	44
4	77	65	56	50	72	62	54	48	56	49	44	50	45	41	45	41	37
5	70	58	49	43	66	55	47	41	50	43	38	45	40	35	41	36	32
6	65	52	43	37	61	50	42	36	45	38	33	41	35	31	37	32	29
7	60	47	38	33	57	45	37	31	41	34	29	37	31	27	34	29	25
8	56	43	34	29	53	41	33	28	37	31	26	34	28	24	31	26	23
9	52	39	31	26	49	37	30	25	34	28	23	31	26	22	28	24	20
10	49	36	28	23	46	34	27	23	32	25	21	29	24	20	26	22	19

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10124	10124	10124
5°	10140	9912	9936
10°	10065	9710	9682
15°	9942	9475	9370
20°	9776	9191	9059
25°	9581	8889	8684
30°	9344	8559	8343
35°	9122	8255	8028
40°	8897	7935	7711
45°	8641	7657	7426
50°	8397	7356	7169
55°	8103	7068	6870
60°	7782	6741	6564
65°	7445	6396	6219
70°	7061	5934	5859
75°	6453	5478	5421
80°	5658	4923	4937
85°	4871	4479	4682

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 8641 cd/sqm

TEST NUMBER: P1027619

CATALOG NUMBER: S125DIP-B1270D375UB27-4F0-XX-W2A-D

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	149.5	2.4
10°-20°	424.5	6.7
20°-30°	631.2	9.9
30°-40°	747.5	11.8
40°-50°	772.8	12.2
50°-60°	711.9	11.2
60°-70°	575.5	9.1
70°-80°	385.1	6.1
80°-90°	199.7	3.1
90°-100°	128.2	2.0
100°-110°	190.0	3.0
110°-120°	248.7	3.9
120°-130°	279.5	4.4
130°-140°	280.6	4.4
140°-150°	253.2	4.0
150°-160°	202.6	3.2
160°-170°	131.0	2.1
170°-180°	45.2	0.7
0°-30°	1205.2	19.0
0°-40°	1952.7	30.7
0°-60°	3437.5	54.1
0°-90°	4597.9	72.3
90°-120°	566.9	8.9
90°-150°	1380.2	21.7
90°-180°	1759.0	27.7
0°-180°	6356.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1580	1580	1580	1580	1580	
5°	1580	1577	1566	1579	1577	150
15°	1509	1510	1500	1509	1503	425
25°	1371	1376	1366	1373	1365	631
35°	1187	1198	1193	1198	1198	743
45°	978	995	1002	1013	1015	754
55°	751	776	801	818	824	672
65°	517	553	590	614	620	513
75°	285	325	375	406	414	302
85°	85	136	190	225	237	89
90°	25	78	133	170	182	18
95°	40	79	119	155	165	40
105°	118	144	190	221	232	125
115°	204	216	257	284	291	202
125°	283	284	315	338	345	252
135°	348	349	359	378	384	269
145°	402	401	401	409	413	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: P1027619

CATALOG NUMBER: S125DIP-B1270D375UB27-4F0-XX-W2A-D

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1580.1	1580.1	1580.1	1580.1	1580.1
2.5°	1584.8	1581.7	1570.8	1581.7	1580.1
5°	1580.1	1577.0	1566.2	1578.6	1577.0
7.5°	1569.3	1567.7	1556.9	1567.7	1566.2
10°	1553.8	1553.8	1541.4	1552.3	1550.7
12.5°	1532.1	1533.7	1524.4	1532.1	1527.5
15°	1508.9	1510.4	1499.6	1508.9	1502.7
17.5°	1479.4	1482.5	1471.7	1479.4	1474.8
20°	1446.9	1450.0	1439.2	1443.8	1443.8
22.5°	1409.7	1415.9	1403.5	1409.7	1405.1
25°	1371.0	1375.7	1366.4	1372.6	1364.8
27.5°	1329.2	1335.4	1324.5	1329.2	1326.1
30°	1281.2	1290.4	1281.2	1284.3	1282.7
32.5°	1237.8	1245.5	1239.3	1242.4	1240.9
35°	1186.7	1197.5	1192.9	1197.5	1197.5
37.5°	1137.1	1146.4	1144.8	1151.0	1149.5
40°	1086.0	1098.4	1096.8	1103.0	1106.1
42.5°	1030.2	1047.2	1051.9	1059.6	1059.6
45°	977.5	994.6	1002.3	1013.1	1014.7
47.5°	923.3	938.8	951.2	966.7	969.8
50°	867.5	884.6	901.6	918.7	923.3
52.5°	808.7	830.3	852.0	870.6	873.7
55°	751.3	776.1	800.9	818.0	824.2
57.5°	692.5	721.9	749.8	768.4	773.0
60°	633.6	664.6	695.6	718.8	723.5
62.5°	576.3	607.3	641.4	667.7	673.9
65°	517.4	553.0	590.2	613.5	619.7
67.5°	463.2	497.3	534.5	562.3	570.1
70°	402.8	438.4	478.7	508.1	517.4
72.5°	343.9	381.1	426.0	458.6	464.7
75°	285.0	325.3	374.9	405.9	413.6
77.5°	227.7	274.2	320.7	354.8	361.0
80°	175.1	221.5	274.2	308.3	314.5
82.5°	127.0	176.6	230.8	263.4	275.8
85°	85.2	136.3	190.5	224.6	237.0
87.5°	54.2	103.8	156.5	192.1	202.9
90°	25.2	77.6	132.6	170.1	182.0
92.5°	28.4	70.1	126.4	162.3	173.6
95°	40.2	79.4	118.7	154.6	165.4
97.5°	56.3	95.6	113.2	146.5	157.7
100°	75.9	109.5	160.5	140.5	148.4
102.5°	95.9	126.7	175.4	207.1	186.8
105°	117.6	143.8	190.3	221.3	231.7
107.5°	140.1	161.8	207.4	238.7	246.6
110°	161.7	180.3	224.4	252.8	264.0

TEST NUMBER: P1027619

CATALOG NUMBER: S125DIP-B1270D375UB27-4F0-XX-W2A-D

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	183.6	198.7	240.8	267.3	277.4
115°	204.0	216.5	257.2	283.7	290.8
117.5°	225.3	233.1	273.2	297.5	307.6
120°	246.4	250.8	287.4	313.1	320.7
122.5°	263.6	266.9	301.3	325.4	332.6
125°	283.0	283.9	314.9	338.3	345.0
127.5°	300.1	300.4	326.3	348.9	355.4
130°	317.0	317.3	339.4	360.0	365.9
132.5°	332.5	334.6	349.0	370.7	375.2
135°	348.3	348.9	359.0	378.4	384.1
137.5°	363.1	363.7	369.2	387.8	392.2
140°	376.0	376.7	378.0	395.7	399.7
142.5°	389.1	387.9	388.6	402.5	406.6
145°	401.7	401.0	401.0	409.0	413.1
147.5°	411.5	411.5	411.9	415.3	416.0
150°	422.1	421.4	422.1	422.8	421.5
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)