

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: P1027647

Luminaire Tested: S125DIP-B1270D375UB40-4F0-XX-W2A-D1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027647
REPORT IS A COMBINATION OF REPORTS P1001685 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B1270D375UB40-4F0-XX-W2A-D1
Description: Define 5 Direct/Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

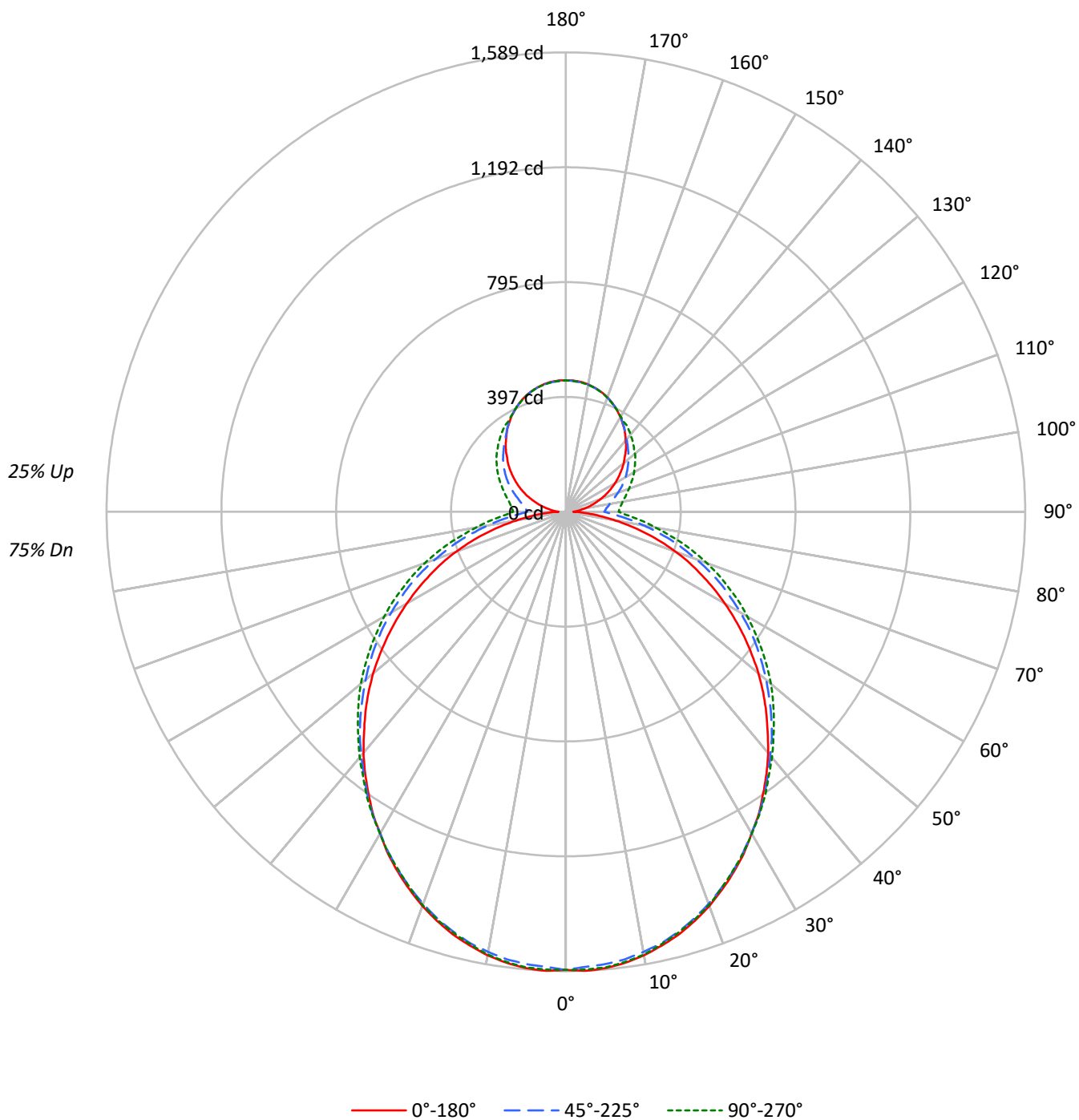
Lumens per Lamp: N/A
Luminaire Lumens: 6178.0 lumens
Efficiency: N/A
Efficacy: 87.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

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: P1027647

CATALOG NUMBER: S125DIP-B1270D375UB40-4F0-XX-W2A-D1

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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	113	113	113	113	107	107	107	107	97	97	97	87	87	87	79	79	79
1	102	97	93	89	97	92	89	85	84	80	78	75	73	71	68	66	64
2	93	84	77	72	88	80	74	69	73	68	63	66	62	58	59	56	53
3	84	74	66	59	80	70	63	57	64	58	53	58	53	49	52	48	45
4	77	65	57	50	73	62	54	48	57	50	45	51	46	42	46	42	38
5	71	58	49	43	67	56	47	41	51	44	39	46	40	36	42	37	33
6	65	52	43	37	62	50	42	36	46	39	34	42	36	32	38	33	29
7	60	47	39	33	57	45	37	32	41	35	30	38	32	28	34	30	26
8	56	43	35	29	53	41	34	28	38	31	27	35	29	25	32	27	23
9	52	39	31	26	50	38	30	25	35	28	24	32	26	22	29	24	21
10	49	36	28	23	47	35	28	23	32	26	22	30	24	20	27	22	19

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10153	10153	10153
5°	10170	9940	9965
10°	10093	9737	9710
15°	9970	9502	9397
20°	9805	9217	9085
25°	9608	8914	8709
30°	9370	8583	8367
35°	9148	8279	8051
40°	8922	7957	7733
45°	8666	7679	7447
50°	8421	7377	7189
55°	8127	7089	6890
60°	7804	6761	6582
65°	7466	6414	6236
70°	7080	5952	5876
75°	6473	5494	5437
80°	5675	4937	4951
85°	4883	4493	4696

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 8666 cd/sqm

TEST NUMBER: P1027647

CATALOG NUMBER: S125DIP-B1270D375UB40-4F0-XX-W2A-D1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.0	2.4
10°-20°	425.7	6.9
20°-30°	633.0	10.2
30°-40°	749.7	12.1
40°-50°	775.0	12.5
50°-60°	714.0	11.6
60°-70°	577.2	9.3
70°-80°	386.2	6.3
80°-90°	200.3	3.2
90°-100°	142.7	2.3
100°-110°	172.7	2.8
110°-120°	207.7	3.4
120°-130°	231.8	3.8
130°-140°	238.4	3.9
140°-150°	222.9	3.6
150°-160°	184.9	3.0
160°-170°	122.9	2.0
170°-180°	43.0	0.7
0°-30°	1208.7	19.6
0°-40°	1958.3	31.7
0°-60°	3447.3	55.8
0°-90°	4611.0	74.6
90°-120°	523.1	8.5
90°-150°	1216.1	19.7
90°-180°	1567.0	25.4
0°-180°	6178.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1585	1585	1585	1585	1585	
5°	1585	1582	1571	1583	1582	150
15°	1513	1515	1504	1513	1507	426
25°	1375	1380	1370	1376	1369	633
35°	1190	1201	1196	1201	1201	745
45°	980	997	1005	1016	1018	756
55°	754	778	803	820	826	673
65°	519	555	592	615	621	515
75°	286	326	376	407	415	303
85°	85	137	191	225	238	89
90°	25	78	133	170	182	19
95°	43	84	141	177	189	40
105°	95	121	170	203	215	101
115°	162	174	215	243	252	160
125°	229	229	261	285	292	205
135°	292	293	304	324	331	225
145°	352	352	353	361	366	220
155°	401	401	401	403	401	185
165°	436	435	436	437	435	123
175°	453	452	452	454	452	43
180°	454	454	454	454	454	

TEST NUMBER: P1027647

CATALOG NUMBER: S125DIP-B1270D375UB40-4F0-XX-W2A-D1

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1584.7	1584.7	1584.7	1584.7	1584.7
2.5°	1589.3	1586.2	1575.3	1586.2	1584.7
5°	1584.7	1581.6	1570.7	1583.1	1581.6
7.5°	1573.8	1572.2	1561.4	1572.2	1570.7
10°	1558.2	1558.2	1545.8	1556.7	1555.1
12.5°	1536.5	1538.1	1528.7	1536.5	1531.8
15°	1513.2	1514.7	1503.9	1513.2	1507.0
17.5°	1483.7	1486.8	1475.9	1483.7	1479.0
20°	1451.1	1454.2	1443.3	1447.9	1447.9
22.5°	1413.8	1420.0	1407.6	1413.8	1409.1
25°	1374.9	1379.6	1370.3	1376.5	1368.7
27.5°	1333.0	1339.2	1328.3	1333.0	1329.9
30°	1284.8	1294.1	1284.8	1287.9	1286.4
32.5°	1241.3	1249.1	1242.9	1246.0	1244.4
35°	1190.0	1200.9	1196.3	1200.9	1200.9
37.5°	1140.3	1149.7	1148.1	1154.3	1152.8
40°	1089.1	1101.5	1099.9	1106.2	1109.3
42.5°	1033.1	1050.2	1054.9	1062.7	1062.7
45°	980.3	997.4	1005.2	1016.0	1017.6
47.5°	925.9	941.5	953.9	969.4	972.5
50°	870.0	887.1	904.2	921.3	925.9
52.5°	811.0	832.7	854.5	873.1	876.2
55°	753.5	778.3	803.2	820.3	826.5
57.5°	694.5	724.0	751.9	770.6	775.2
60°	635.4	666.5	697.6	720.9	725.5
62.5°	577.9	609.0	643.2	669.6	675.8
65°	518.9	554.6	591.9	615.2	621.4
67.5°	464.5	498.7	536.0	564.0	571.7
70°	403.9	439.7	480.1	509.6	518.9
72.5°	344.9	382.2	427.2	459.9	466.1
75°	285.9	326.3	376.0	407.0	414.8
77.5°	228.4	275.0	321.6	355.8	362.0
80°	175.6	222.2	275.0	309.2	315.4
82.5°	127.4	177.1	231.5	264.1	276.5
85°	85.4	136.7	191.1	225.3	237.7
87.5°	54.4	104.1	156.9	192.6	203.5
90°	25.3	77.8	133.1	170.5	182.5
92.5°	32.4	79.2	136.8	173.4	184.9
95°	43.2	84.3	140.6	177.3	188.9
97.5°	54.0	91.6	147.9	182.6	193.8
100°	66.6	99.2	153.5	189.4	199.4
102.5°	80.2	111.6	161.5	196.1	206.5
105°	94.6	121.2	169.9	203.1	215.1
107.5°	110.4	133.9	180.7	212.9	222.2
110°	126.9	147.3	191.8	222.4	232.9

TEST NUMBER: P1027647

CATALOG NUMBER: S125DIP-B1270D375UB40-4F0-XX-W2A-D1

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	145.3	160.0	203.3	231.7	241.8
115°	161.7	174.0	215.1	242.8	251.7
117.5°	178.6	186.7	226.3	253.0	262.5
120°	195.6	202.0	238.1	264.5	272.4
122.5°	212.4	214.3	249.5	274.0	282.3
125°	228.6	229.3	260.6	284.8	292.3
127.5°	245.2	244.6	271.4	294.3	302.9
130°	261.1	261.3	283.8	305.1	312.2
132.5°	275.4	278.6	293.7	315.2	320.3
135°	292.4	293.0	304.2	324.4	330.7
137.5°	308.3	308.9	315.8	334.8	339.2
140°	322.0	323.8	326.3	344.1	348.6
142.5°	337.2	337.0	338.4	352.8	357.2
145°	352.1	351.9	352.9	360.7	365.9
147.5°	364.3	365.3	366.0	370.2	370.5
150°	378.0	377.7	379.1	379.1	380.0
152.5°	389.4	390.1	390.4	391.5	390.1
155°	401.0	401.0	401.4	402.8	401.0
157.5°	411.6	410.9	411.3	412.7	410.2
160°	420.8	419.8	420.1	421.5	419.8
162.5°	429.0	428.3	428.3	430.0	427.9
165°	436.0	435.3	435.7	437.1	435.0
167.5°	442.4	441.0	441.0	443.1	441.0
170°	447.4	445.9	445.9	448.1	445.6
172.5°	450.9	449.5	449.5	451.6	449.5
175°	453.4	452.0	452.0	454.1	451.6
177.5°	455.1	453.7	453.4	455.5	453.0
180°	454.4	454.4	454.4	454.4	454.4

(END OF REPORT)