

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: P1027425

Luminaire Tested: S125DIP-B1090D375UB40-4F0-XX-W2A-D1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027425
REPORT IS A COMBINATION OF REPORTS P1001385 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B1090D375UB40-4F0-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

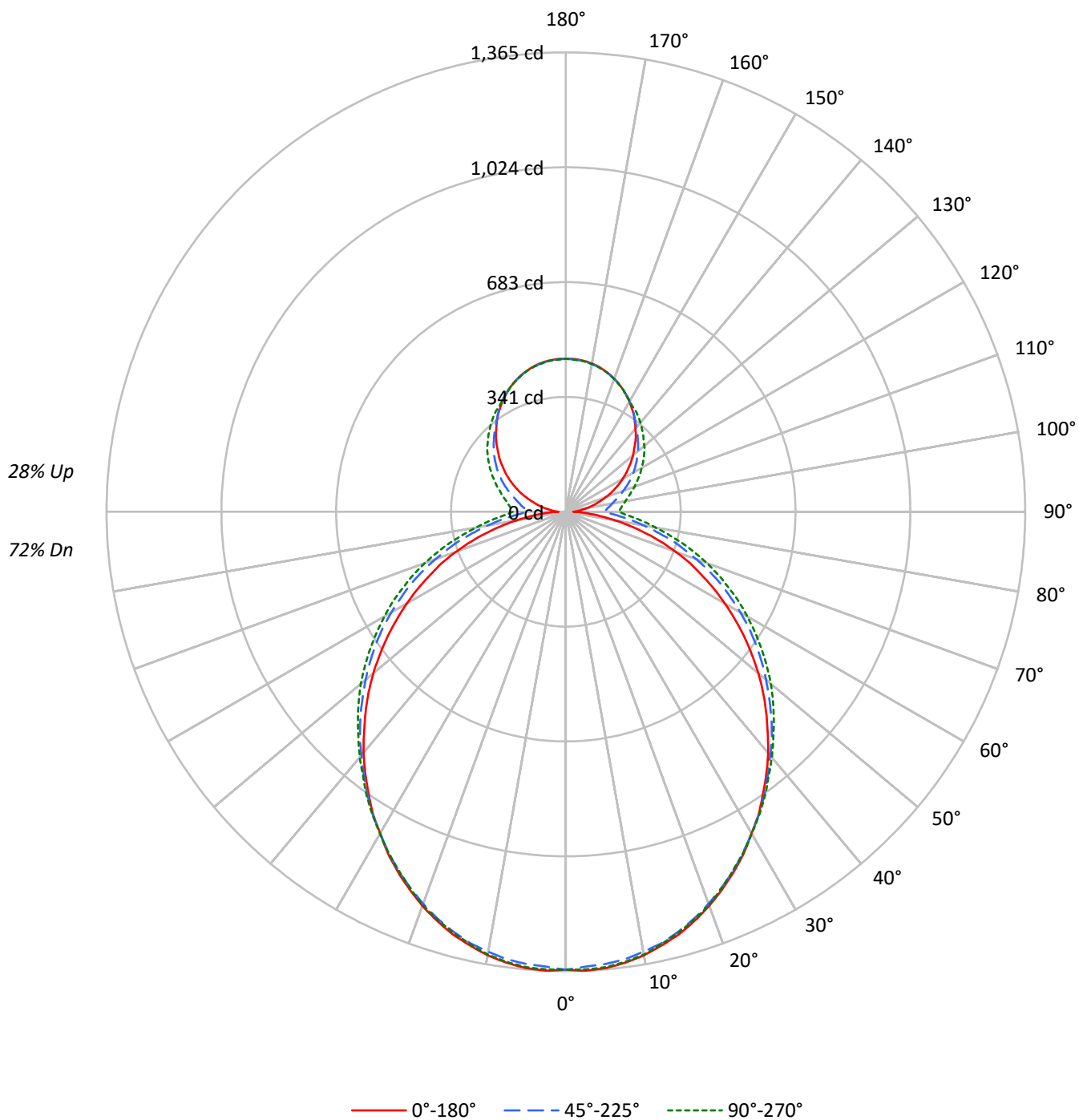
Lumens per Lamp: N/A
Luminaire Lumens: 5485.0 lumens
Efficiency: N/A
Efficacy: 97.8 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

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

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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
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	82	79	77	74	72	69	66	64	63
2	92	84	77	71	87	80	74	68	72	67	63	64	60	57	57	55	52
3	84	73	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	40	36	32
6	65	52	43	37	61	50	42	36	45	38	33	41	35	31	37	32	28
7	60	47	38	32	57	45	37	31	41	34	29	37	31	27	33	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°	8720	8720	8720
5°	8734	8537	8558
10°	8669	8363	8339
15°	8563	8161	8070
20°	8420	7915	7802
25°	8251	7655	7480
30°	8047	7371	7186
35°	7857	7110	6914
40°	7662	6834	6641
45°	7442	6595	6396
50°	7232	6335	6174
55°	6979	6088	5917
60°	6702	5806	5653
65°	6412	5510	5356
70°	6081	5111	5046
75°	5559	4718	4669
80°	4873	4241	4253
85°	4197	3859	4032

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 7442 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.8	2.3
10°-20°	365.6	6.7
20°-30°	543.6	9.9
30°-40°	643.8	11.7
40°-50°	665.6	12.1
50°-60°	613.2	11.2
60°-70°	495.7	9.0
70°-80°	331.7	6.0
80°-90°	172.1	3.1
90°-100°	126.8	2.3
100°-110°	161.0	2.9
110°-120°	199.9	3.6
120°-130°	227.4	4.1
130°-140°	236.4	4.3
140°-150°	222.5	4.1
150°-160°	184.9	3.4
160°-170°	122.9	2.2
170°-180°	43.0	0.8
0°-30°	1038.0	18.9
0°-40°	1681.9	30.7
0°-60°	2960.7	54.0
0°-90°	3960.2	72.2
90°-120°	487.7	8.9
90°-150°	1174.0	21.4
90°-180°	1525.0	27.8
0°-180°	5485.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1361	1361	1361	1361	1361	
5°	1361	1358	1349	1360	1358	129
15°	1300	1301	1292	1300	1294	366
25°	1181	1185	1177	1182	1176	544
35°	1022	1031	1027	1031	1031	640
45°	842	857	863	873	874	650
55°	647	668	690	704	710	578
65°	446	476	508	528	534	442
75°	246	280	323	350	356	260
85°	73	117	164	194	204	77
90°	22	67	115	148	158	16
95°	40	76	125	156	166	38
105°	93	116	158	187	197	99
115°	160	171	206	230	238	159
125°	228	229	256	276	283	204
135°	292	293	302	320	325	225
145°	352	352	353	360	364	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	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1361.0	1361.0	1361.0	1361.0	1361.0
2.5°	1365.0	1362.3	1352.9	1362.3	1361.0
5°	1361.0	1358.3	1348.9	1359.6	1358.3
7.5°	1351.6	1350.3	1340.9	1350.3	1348.9
10°	1338.3	1338.3	1327.6	1336.9	1335.6
12.5°	1319.6	1320.9	1312.9	1319.6	1315.6
15°	1299.6	1300.9	1291.6	1299.6	1294.2
17.5°	1274.2	1276.9	1267.6	1274.2	1270.2
20°	1246.2	1248.9	1239.5	1243.5	1243.5
22.5°	1214.2	1219.5	1208.8	1214.2	1210.2
25°	1180.8	1184.8	1176.8	1182.2	1175.5
27.5°	1144.8	1150.1	1140.8	1144.8	1142.1
30°	1103.4	1111.4	1103.4	1106.1	1104.8
32.5°	1066.1	1072.8	1067.4	1070.1	1068.7
35°	1022.1	1031.4	1027.4	1031.4	1031.4
37.5°	979.4	987.4	986.0	991.4	990.0
40°	935.3	946.0	944.7	950.0	952.7
42.5°	887.3	902.0	906.0	912.6	912.6
45°	841.9	856.6	863.3	872.6	873.9
47.5°	795.2	808.6	819.2	832.6	835.3
50°	747.2	761.9	776.5	791.2	795.2
52.5°	696.5	715.2	733.8	749.9	752.5
55°	647.1	668.5	689.8	704.5	709.8
57.5°	596.4	621.8	645.8	661.8	665.8
60°	545.7	572.4	599.1	619.1	623.1
62.5°	496.3	523.0	552.4	575.1	580.4
65°	445.6	476.3	508.4	528.4	533.7
67.5°	398.9	428.3	460.3	484.3	491.0
70°	346.9	377.6	412.3	437.6	445.6
72.5°	296.2	328.2	366.9	394.9	400.3
75°	245.5	280.2	322.9	349.6	356.2
77.5°	196.1	236.2	276.2	305.5	310.9
80°	150.8	190.8	236.2	265.5	270.9
82.5°	109.4	152.1	198.8	226.8	237.5
85°	73.4	117.4	164.1	193.5	204.1
87.5°	46.7	89.4	134.8	165.4	174.8
90°	21.7	67.2	115.1	147.5	157.9
92.5°	29.3	69.8	119.7	151.4	161.5
95°	40.3	75.7	124.6	156.5	166.5
97.5°	51.4	83.7	132.8	162.9	172.5
100°	64.2	92.2	139.5	170.7	179.4
102.5°	78.0	105.2	148.4	178.5	187.6
105°	92.6	115.8	157.9	186.7	197.1
107.5°	108.7	129.1	169.5	197.3	205.3
110°	125.3	143.2	181.5	208.0	216.9

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	143.7	156.4	193.9	218.3	226.9
115°	160.4	171.1	206.5	230.3	237.9
117.5°	177.5	184.5	218.6	241.6	249.5
120°	194.5	200.3	231.3	253.9	260.6
122.5°	211.5	213.2	243.6	264.6	271.6
125°	227.7	228.6	255.6	276.2	282.6
127.5°	244.5	244.2	267.3	286.9	294.2
130°	260.4	260.9	280.2	298.5	304.5
132.5°	275.0	278.2	291.1	309.5	313.7
135°	292.0	292.7	302.5	319.8	325.0
137.5°	307.9	308.6	314.7	331.1	334.6
140°	321.7	323.5	325.9	341.2	344.9
142.5°	336.9	337.0	338.4	350.8	354.3
145°	351.8	351.9	352.9	359.6	363.9
147.5°	364.3	365.3	366.0	369.8	369.6
150°	378.0	377.7	379.1	379.1	379.7
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)