

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: P1027770

Luminaire Tested: S125DIP-B375D1090UB35-4F0-XX-W2A-D1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027770
REPORT IS A COMBINATION OF REPORTS P1001856 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B375D1090UB35-4F0-XX-W2A-D1
Description: Define 5 Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

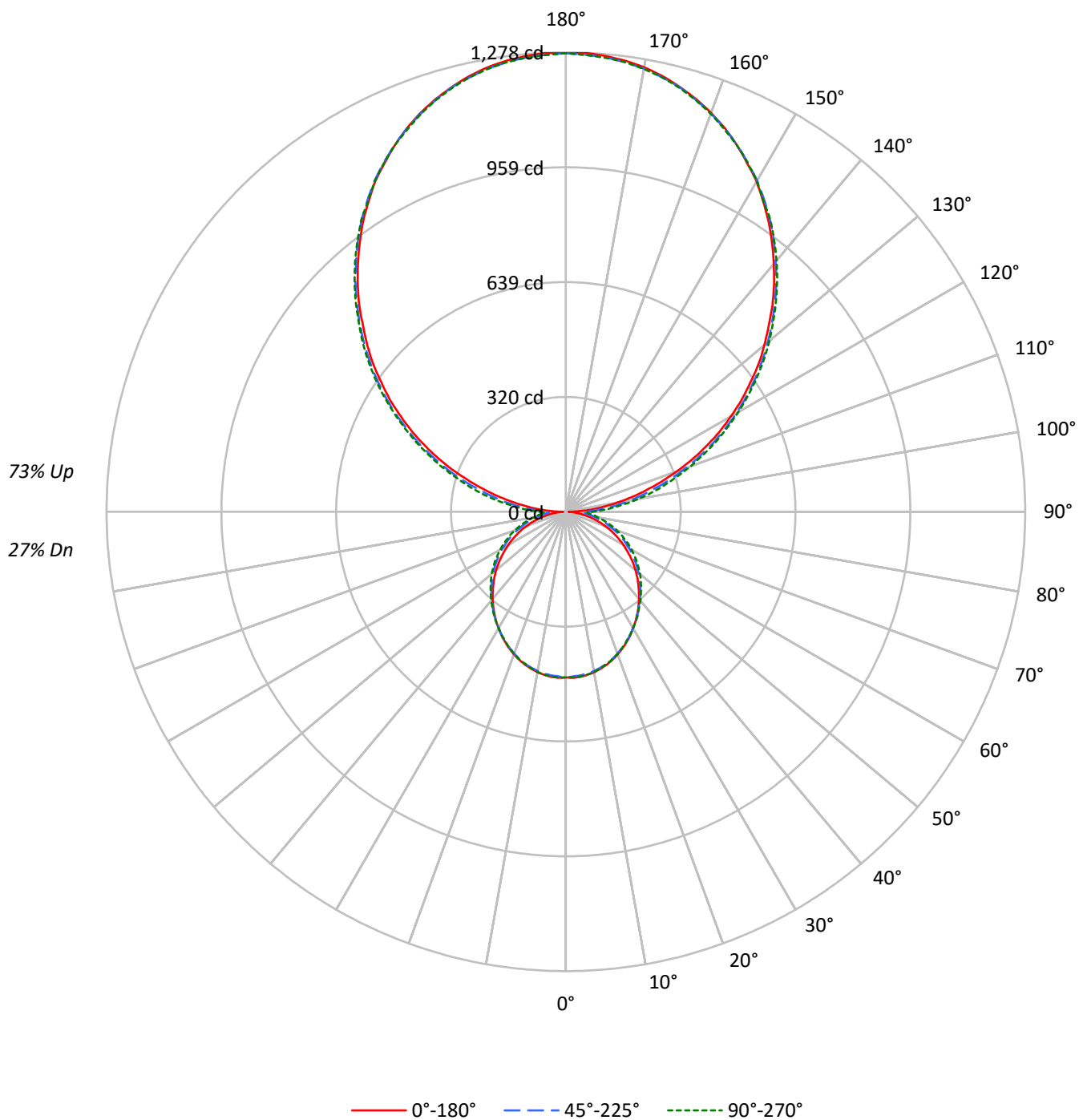
Lumens per Lamp: N/A
Luminaire Lumens: 4990.0 lumens
Efficiency: N/A
Efficacy: 120.2 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 41.5
Input Voltage (V):
Input Current (A_{in}): 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	50	30	10
RCR																				
0	102	102	102	102	91	91	91	91	71	71	71	52	52	52	35	35	35			27
1	92	88	84	80	82	79	75	72	61	59	57	45	44	42	30	29	29			22
2	84	76	70	65	74	68	63	59	53	50	47	39	37	35	26	25	24			18
3	76	67	60	54	68	60	54	49	47	42	39	35	32	29	23	21	20			15
4	70	59	51	45	62	53	46	41	41	37	33	31	27	25	21	19	17			13
5	64	52	45	39	57	47	40	35	37	32	28	27	24	21	18	16	15			11
6	59	47	39	33	52	42	35	30	33	28	24	25	21	19	17	15	13			10
7	54	42	34	29	48	38	31	26	30	25	21	22	19	16	15	13	11			9
8	50	38	31	25	44	34	28	23	27	22	19	20	17	14	14	12	10			8
9	46	35	27	22	41	31	25	20	25	20	17	19	15	13	13	11	9			7
10	43	32	25	20	39	28	22	18	23	18	15	17	14	12	12	10	8			6

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2954	2954	2954
5°	2958	2892	2899
10°	2936	2833	2825
15°	2900	2764	2734
20°	2852	2681	2643
25°	2795	2593	2534
30°	2725	2497	2434
35°	2661	2408	2342
40°	2595	2315	2250
45°	2521	2234	2166
50°	2450	2146	2092
55°	2364	2062	2004
60°	2270	1966	1915
65°	2171	1866	1815
70°	2060	1731	1709
75°	1884	1598	1582
80°	1651	1436	1440
85°	1424	1307	1365

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2521 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.6	0.9
10°-20°	123.8	2.5
20°-30°	184.1	3.7
30°-40°	218.1	4.4
40°-50°	225.5	4.5
50°-60°	207.7	4.2
60°-70°	167.9	3.4
70°-80°	112.3	2.3
80°-90°	60.0	1.2
90°-100°	117.5	2.4
100°-110°	276.1	5.5
110°-120°	443.5	8.9
120°-130°	571.7	11.5
130°-140°	634.4	12.7
140°-150°	618.7	12.4
150°-160°	519.1	10.4
160°-170°	345.0	6.9
170°-180°	120.7	2.4
0°-30°	351.6	7.0
0°-40°	569.7	11.4
0°-60°	1002.8	20.1
0°-90°	1343.1	26.9
90°-120°	837.1	16.8
90°-150°	2662.1	53.3
90°-180°	3647.0	73.1
0°-180°	4990.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	461	461	461	461	461	
5°	461	460	457	460	460	44
15°	440	441	438	440	438	124
25°	400	401	399	400	398	184
35°	346	349	348	349	349	217
45°	285	290	292	296	296	220
55°	219	226	234	239	240	196
65°	151	161	172	179	181	150
75°	83	95	109	118	121	88
85°	25	40	56	66	69	26
90°	8	31	53	68	74	9
95°	70	84	109	126	132	72
105°	230	243	262	277	283	246
115°	430	438	451	459	460	426
125°	626	632	642	647	648	561
135°	813	818	822	828	827	627
145°	984	988	991	993	992	615
155°	1126	1126	1127	1131	1126	519
165°	1224	1222	1223	1227	1221	345
175°	1273	1269	1269	1275	1268	121
180°	1276	1276	1276	1276	1276	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	461.0	461.0	461.0	461.0	461.0
2.5°	462.3	461.4	458.3	461.4	461.0
5°	461.0	460.1	456.9	460.5	460.1
7.5°	457.8	457.4	454.2	457.4	456.9
10°	453.3	453.3	449.7	452.8	452.4
12.5°	447.0	447.4	444.7	447.0	445.6
15°	440.2	440.6	437.5	440.2	438.4
17.5°	431.6	432.5	429.3	431.6	430.2
20°	422.1	423.0	419.8	421.2	421.2
22.5°	411.3	413.1	409.4	411.3	409.9
25°	400.0	401.3	398.6	400.4	398.2
27.5°	387.8	389.6	386.4	387.8	386.9
30°	373.7	376.5	373.7	374.6	374.2
32.5°	361.1	363.4	361.5	362.4	362.0
35°	346.2	349.3	348.0	349.3	349.3
37.5°	331.7	334.4	334.0	335.8	335.3
40°	316.8	320.4	320.0	321.8	322.7
42.5°	300.5	305.5	306.9	309.1	309.1
45°	285.2	290.1	292.4	295.6	296.0
47.5°	269.4	273.9	277.5	282.0	282.9
50°	253.1	258.1	263.0	268.0	269.4
52.5°	235.9	242.2	248.6	254.0	254.9
55°	219.2	226.4	233.6	238.6	240.4
57.5°	202.0	210.6	218.7	224.2	225.5
60°	184.8	193.9	202.9	209.7	211.1
62.5°	168.1	177.2	187.1	194.8	196.6
65°	150.9	161.3	172.2	179.0	180.8
67.5°	135.1	145.1	155.9	164.1	166.3
70°	117.5	127.9	139.6	148.2	150.9
72.5°	100.3	111.2	124.3	133.8	135.6
75°	83.2	94.9	109.4	118.4	120.7
77.5°	66.4	80.0	93.5	103.5	105.3
80°	51.1	64.6	80.0	89.9	91.7
82.5°	37.1	51.5	67.3	76.8	80.4
85°	24.9	39.8	55.6	65.5	69.1
87.5°	15.8	30.3	45.6	56.0	59.2
90°	8.2	30.6	53.0	68.3	74.4
92.5°	36.1	54.1	79.0	95.8	101.0
95°	70.4	84.1	109.4	126.3	131.5
97.5°	104.7	116.6	145.4	160.8	164.9
100°	144.0	153.5	180.8	199.2	203.9
102.5°	186.2	199.7	218.7	237.7	243.4
105°	230.4	242.6	262.1	277.1	283.3
107.5°	278.6	289.8	307.9	320.0	322.7
110°	328.8	339.2	354.7	366.3	368.5

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	380.4	386.4	402.6	411.8	412.9
115°	430.5	437.7	451.4	458.6	460.3
117.5°	481.8	484.9	498.2	506.9	506.2
120°	529.4	535.7	547.1	554.8	553.5
122.5°	580.5	582.0	594.9	601.1	600.8
125°	626.2	631.7	641.7	646.9	648.3
127.5°	676.4	678.9	687.6	693.4	694.1
130°	721.1	725.5	733.8	739.2	739.5
132.5°	765.2	774.2	777.7	783.1	781.9
135°	812.9	818.5	822.5	828.4	826.8
137.5°	857.6	863.1	866.9	873.3	870.1
140°	899.9	904.8	908.2	915.2	912.0
142.5°	942.5	946.0	950.0	955.1	951.9
145°	984.2	987.7	990.7	993.0	991.8
147.5°	1022.4	1025.4	1027.4	1031.3	1024.2
150°	1061.2	1060.2	1064.1	1064.1	1062.6
152.5°	1092.9	1094.9	1095.9	1098.9	1094.9
155°	1125.7	1125.7	1126.7	1130.6	1125.7
157.5°	1155.5	1153.5	1154.5	1158.4	1151.5
160°	1181.3	1178.3	1179.3	1183.3	1178.3
162.5°	1204.1	1202.1	1202.1	1207.1	1201.1
165°	1224.0	1222.0	1223.0	1226.9	1221.0
167.5°	1241.8	1237.8	1237.8	1243.8	1237.8
170°	1255.7	1251.7	1251.7	1257.7	1250.8
172.5°	1265.6	1261.7	1261.7	1267.6	1261.7
175°	1272.6	1268.6	1268.6	1274.6	1267.6
177.5°	1277.6	1273.6	1272.6	1278.5	1271.6
180°	1275.6	1275.6	1275.6	1275.6	1275.6

(END OF REPORT)