

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: P1024926

Luminaire Tested: S124DIP-B1020D365UB40-4F0-XX-W2A-D4

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1024926
REPORT IS A COMBINATION OF REPORTS P995286 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124DIP-B1020D365UB40-4F0-XX-W2A-D4
Description: Define 4 Direct/Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

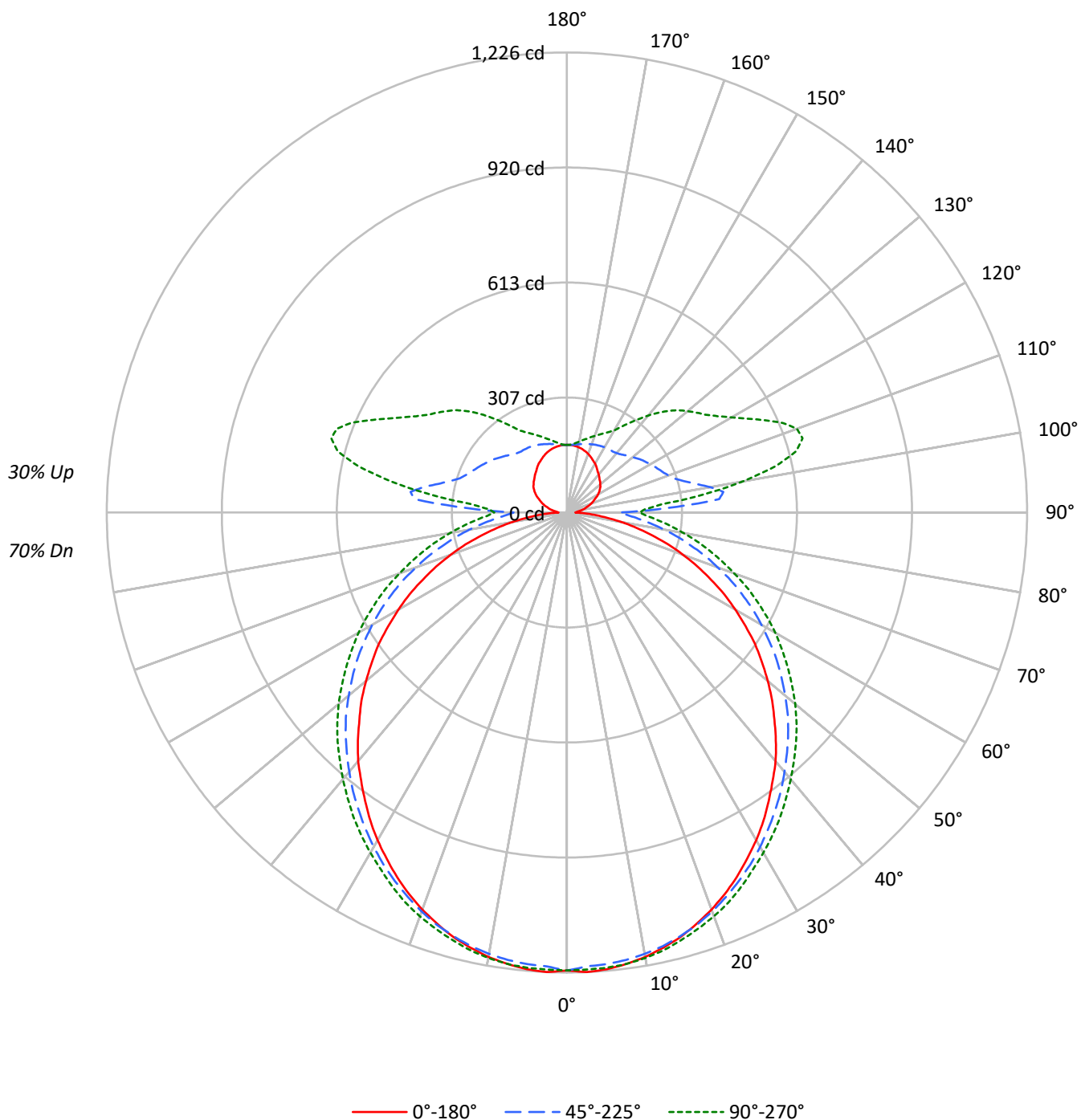
Lumens per Lamp: N/A
Luminaire Lumens: 5474.6 lumens
Efficiency: N/A
Efficacy: 97.6 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

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	106	106	106	106	95	95	95	84	84	84	75	75	75
1	101	96	91	87	95	91	87	83	81	78	75	72	70	67	64	62	60
2	91	83	76	70	86	78	72	67	70	65	61	62	59	55	55	52	50
3	83	72	64	58	78	69	61	55	61	55	51	55	50	46	49	45	42
4	76	64	55	49	71	61	53	47	54	48	43	49	43	39	43	39	35
5	69	57	48	41	65	54	46	40	48	42	37	43	38	34	39	34	31
6	64	51	42	36	60	48	40	35	44	37	32	39	34	29	35	30	27
7	59	46	37	31	56	44	36	30	40	33	28	36	30	26	32	27	24
8	55	42	33	28	52	40	32	27	36	30	25	33	27	23	29	25	21
9	51	38	30	25	48	36	29	24	33	27	22	30	25	21	27	22	19
10	48	35	27	22	45	34	26	22	31	24	20	28	22	19	25	21	17

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9952	9952	9952
5°	9979	9692	9710
10°	9915	9502	9475
15°	9822	9287	9209
20°	9684	9055	8951
25°	9530	8800	8673
30°	9362	8546	8390
35°	9172	8286	8137
40°	9020	8037	7876
45°	8795	7804	7644
50°	8604	7539	7400
55°	8405	7283	7120
60°	8097	6965	6856
65°	7759	6622	6538
70°	7349	6230	6169
75°	6775	5792	5820
80°	6128	5350	5453
85°	5268	4902	5156

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 8795 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	115.6	2.1
10°-20°	331.3	6.1
20°-30°	501.0	9.2
30°-40°	606.1	11.1
40°-50°	640.7	11.7
50°-60°	603.0	11.0
60°-70°	500.4	9.1
70°-80°	351.1	6.4
80°-90°	198.7	3.6
90°-100°	251.5	4.6
100°-110°	359.1	6.6
110°-120°	300.8	5.5
120°-130°	236.5	4.3
130°-140°	184.1	3.4
140°-150°	132.5	2.4
150°-160°	91.2	1.7
160°-170°	53.6	1.0
170°-180°	17.4	0.3
0°-30°	947.9	17.3
0°-40°	1554.0	28.4
0°-60°	2797.7	51.1
0°-90°	3847.9	70.3
90°-120°	911.4	16.6
90°-150°	1464.5	26.8
90°-180°	1627.0	29.7
0°-180°	5474.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1220	1220	1220	1220	1220	
5°	1222	1218	1208	1219	1218	116
15°	1171	1173	1168	1181	1179	330
25°	1072	1080	1084	1099	1100	494
35°	938	954	968	987	991	587
45°	782	808	834	857	864	604
55°	612	641	682	709	718	546
65°	424	467	514	548	559	420
75°	235	286	343	381	394	250
85°	72	130	191	232	246	75
90°	22	79	142	182	193	16
95°	30	100	407	298	254	27
105°	54	100	322	624	633	58
115°	81	112	271	492	581	81
125°	107	125	244	402	453	96
135°	123	146	216	334	383	96
145°	140	159	203	261	292	88
155°	158	171	197	223	233	73
165°	172	177	189	200	203	49
175°	180	180	181	184	183	17
180°	180	180	180	180	180	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1220.4	1220.4	1220.4	1220.4	1220.4
2.5°	1225.9	1221.8	1210.9	1220.4	1219.1
5°	1221.8	1217.7	1208.1	1219.1	1217.7
7.5°	1213.6	1210.9	1202.7	1215.0	1213.6
10°	1202.7	1201.3	1194.5	1206.8	1205.4
12.5°	1187.6	1187.6	1183.5	1194.5	1194.5
15°	1171.2	1172.6	1168.5	1180.8	1179.4
17.5°	1149.4	1153.5	1152.1	1164.4	1163.0
20°	1126.1	1130.2	1131.6	1145.3	1145.3
22.5°	1100.2	1105.6	1108.4	1122.0	1124.8
25°	1071.5	1079.7	1083.8	1098.8	1100.2
27.5°	1040.0	1052.3	1057.8	1071.5	1072.8
30°	1008.6	1019.5	1029.1	1044.1	1046.9
32.5°	974.4	988.1	999.0	1016.8	1019.5
35°	937.5	953.9	967.6	986.7	990.8
37.5°	900.6	919.8	936.2	955.3	959.4
40°	865.1	882.9	902.0	922.5	928.0
42.5°	824.1	844.6	867.8	891.1	895.2
45°	781.7	807.7	833.7	856.9	863.7
47.5°	742.1	768.1	798.1	821.4	829.6
50°	698.4	728.4	758.5	785.8	794.0
52.5°	654.6	684.7	720.2	747.6	755.8
55°	612.3	641.0	682.0	709.3	717.5
57.5°	564.4	600.0	639.6	672.4	679.2
60°	518.0	553.5	598.6	630.0	641.0
62.5°	472.9	512.5	557.6	589.0	600.0
65°	423.7	467.4	513.9	548.0	559.0
67.5°	377.2	423.7	472.9	507.0	518.0
70°	329.4	375.8	427.8	464.7	474.2
72.5°	282.9	330.7	386.8	422.3	433.2
75°	235.1	285.6	343.0	381.3	393.6
77.5°	190.0	243.3	303.4	341.7	355.3
80°	149.0	203.6	263.8	304.8	315.7
82.5°	108.0	165.4	225.5	267.9	280.2
85°	72.4	129.8	191.3	232.3	246.0
87.5°	45.1	101.1	161.3	200.9	213.2
90°	22.3	79.3	141.7	182.0	193.3
92.5°	25.4	95.5	265.7	211.2	208.5
95°	29.5	99.6	407.0	298.5	254.3
97.5°	35.8	96.6	420.3	438.8	367.0
100°	41.9	96.6	388.1	543.8	474.4
102.5°	48.9	97.4	351.1	605.5	569.4
105°	53.7	99.5	322.1	623.6	632.6
107.5°	61.8	103.2	300.8	608.8	658.3
110°	68.5	105.6	288.6	572.4	652.2

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	75.0	109.2	278.6	529.4	623.2
115°	81.0	111.8	271.0	491.6	581.4
117.5°	88.8	115.4	263.8	459.0	541.6
120°	95.2	117.2	257.0	434.4	506.6
122.5°	102.2	120.4	249.8	416.8	477.2
125°	106.9	124.6	244.0	402.3	453.4
127.5°	112.6	131.0	236.4	386.8	436.7
130°	115.8	135.8	229.2	371.3	420.0
132.5°	120.4	141.0	223.4	354.4	403.7
135°	123.2	146.2	216.2	334.2	383.1
137.5°	127.5	149.3	210.7	314.7	360.4
140°	132.1	153.4	206.3	295.5	337.6
142.5°	135.7	157.1	203.6	278.5	313.9
145°	140.3	159.0	202.9	261.2	291.9
147.5°	145.6	162.2	201.8	245.8	270.8
150°	150.6	165.2	200.8	236.4	252.4
152.5°	153.7	168.1	199.0	229.8	241.8
155°	158.0	170.6	197.2	223.4	232.9
157.5°	162.2	172.8	195.5	217.4	224.8
160°	166.1	174.8	193.3	211.4	217.4
162.5°	169.7	176.4	191.2	205.6	210.3
165°	172.1	177.4	189.1	200.2	203.2
167.5°	175.0	178.3	187.0	195.6	197.6
170°	176.7	179.0	184.9	191.0	192.3
172.5°	178.5	179.6	182.7	187.0	187.0
175°	179.6	179.9	181.3	183.8	183.1
177.5°	180.3	179.9	180.3	181.5	180.3
180°	179.9	179.9	179.9	179.9	179.9

(END OF REPORT)