

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: P1000792

Luminaire Tested: SA4XXDIP-B1020D810UB40-4F0-XX-W2A-D1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1000792
REPORT IS A COMBINATION OF REPORTS P995405 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: SA4XXDIP-B1020D810UB40-4F0-XX-W2A-D1
Description: Define 4 Direct/Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

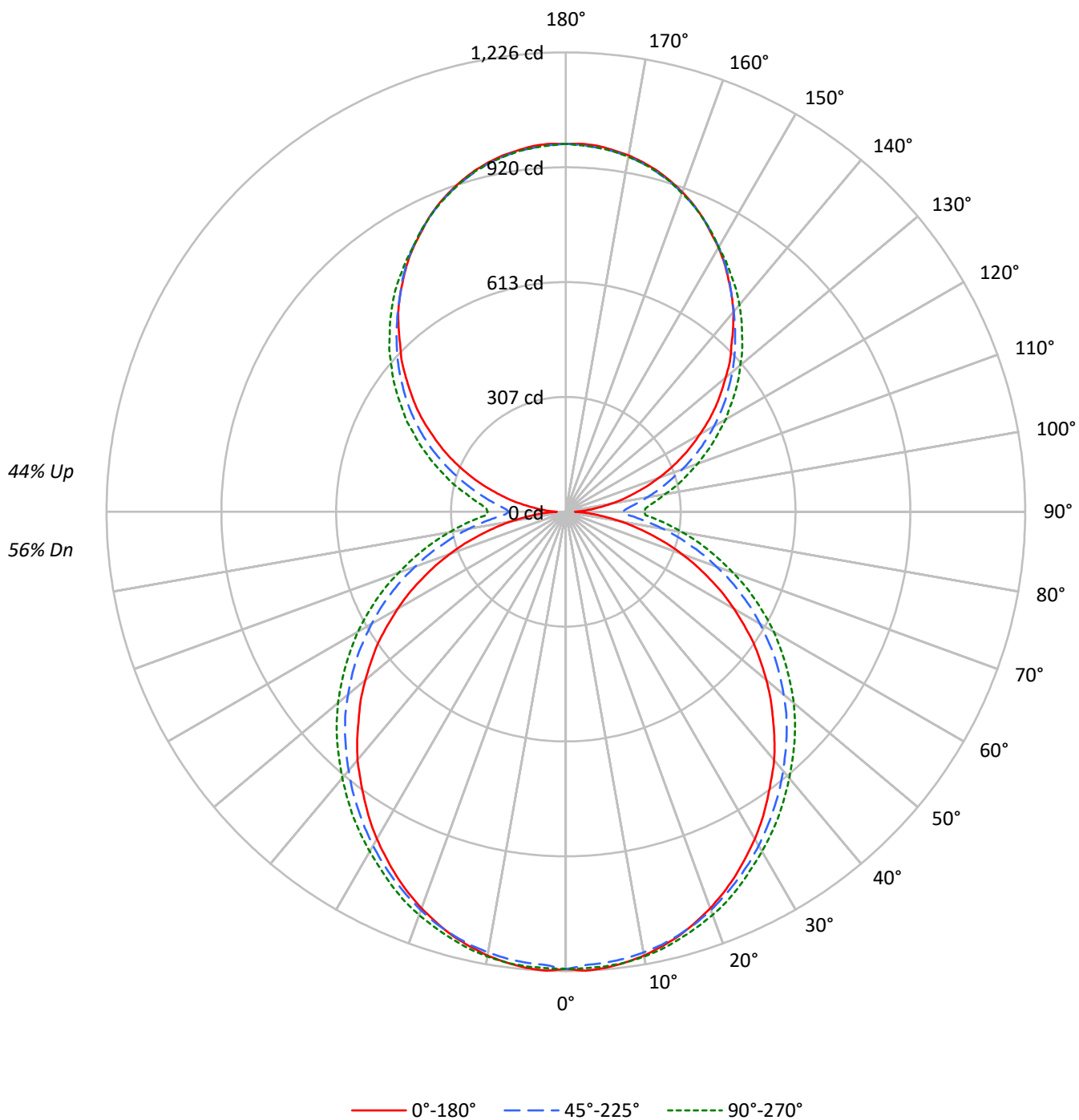
Lumens per Lamp: N/A
Luminaire Lumens: 6887.0 lumens
Efficiency: N/A
Efficacy: 101.4 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 67.9
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	109	109	109	109		101	101	101	101		87	87	87		74	74	74		62	62	62
1	98	93	89	85		91	87	83	79		74	71	69		63	61	59		53	51	50
2	89	81	74	68		82	75	69	64		64	60	56		55	51	48		46	43	41
3	81	71	63	56		74	66	59	53		56	51	47		48	44	40		40	37	34
4	74	62	54	47		68	58	50	45		50	44	39		42	38	34		36	32	29
5	67	55	47	40		62	52	44	38		45	38	34		38	33	29		32	28	25
6	62	49	41	35		57	46	39	33		40	34	29		34	29	26		29	25	22
7	57	45	36	30		53	42	34	29		36	30	26		31	26	23		26	22	20
8	53	40	32	27		49	38	31	25		33	27	23		28	24	20		24	20	17
9	50	37	29	24		46	35	28	23		30	24	20		26	21	18		22	18	16
10	46	34	26	21		43	32	25	20		28	22	18		24	19	16		21	17	14

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	1.7
10°-20°	331.3	4.8
20°-30°	501.0	7.3
30°-40°	606.1	8.8
40°-50°	640.7	9.3
50°-60°	603.0	8.8
60°-70°	500.4	7.3
70°-80°	351.1	5.1
80°-90°	200.1	2.9
90°-100°	181.9	2.6
100°-110°	278.9	4.1
110°-120°	384.2	5.6
120°-130°	462.4	6.7
130°-140°	496.6	7.2
140°-150°	476.9	6.9
150°-160°	398.7	5.8
160°-170°	265.3	3.9
170°-180°	92.9	1.3
0°-30°	947.9	13.8
0°-40°	1554.0	22.6
0°-60°	2797.7	40.6
0°-90°	3849.3	55.9
90°-120°	845.0	12.3
90°-150°	2280.8	33.1
90°-180°	3038.0	44.1
0°-180°	6887.0	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°	24	87	152	196	209	18
95°	63	115	177	216	228	64
105°	189	217	271	307	321	202
115°	339	352	394	423	432	335
125°	488	486	520	544	551	435
135°	624	629	639	659	665	484
145°	757	758	759	767	770	474
155°	866	866	865	868	865	398
165°	942	940	938	943	940	266
175°	980	976	976	981	976	93
180°	982	982	982	982	982	

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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°	24.2	87.1	152.0	196.2	208.7
92.5°	40.2	97.9	160.5	201.1	212.7
95°	63.4	115.3	176.6	215.8	228.1
97.5°	89.3	135.0	197.1	235.7	248.0
100°	121.3	159.9	220.1	258.5	268.0
102.5°	156.2	187.1	245.1	282.9	294.6
105°	189.2	217.3	270.9	307.4	320.6
107.5°	226.4	250.4	299.0	336.2	345.0
110°	263.0	283.7	330.7	360.6	373.9

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	301.2	317.6	361.1	391.1	402.1
115°	339.2	351.5	393.7	423.1	431.9
117.5°	376.4	384.6	424.9	451.3	459.9
120°	412.2	419.4	456.8	480.3	492.7
122.5°	451.0	451.7	487.9	513.0	518.7
125°	487.6	486.2	519.7	544.0	550.7
127.5°	521.8	522.7	548.5	571.5	580.4
130°	556.8	557.7	579.6	602.7	607.9
132.5°	594.0	594.2	609.8	631.6	639.0
135°	624.5	629.1	638.7	659.1	665.0
137.5°	660.2	661.2	668.1	686.3	694.0
140°	695.9	696.1	697.4	714.5	720.5
142.5°	727.2	728.8	726.6	741.6	747.1
145°	756.9	758.5	759.3	766.7	769.9
147.5°	787.2	789.6	788.9	789.5	794.1
150°	814.6	816.2	816.2	816.2	815.4
152.5°	839.0	840.5	841.3	843.5	841.3
155°	865.6	865.6	864.8	867.8	864.8
157.5°	888.3	886.8	886.8	889.1	886.8
160°	908.1	907.3	906.5	908.8	905.0
162.5°	926.3	924.0	923.3	927.8	924.0
165°	942.2	940.0	938.4	943.0	940.0
167.5°	955.1	952.1	952.1	956.7	952.1
170°	965.8	962.0	962.7	967.3	962.0
172.5°	973.4	970.3	970.3	975.6	970.3
175°	980.2	976.4	975.6	981.0	975.6
177.5°	983.2	979.4	979.4	984.8	978.7
180°	981.7	981.7	981.7	981.7	981.7

(END OF REPORT)